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

About possibility of improvement of energetic characteristics of two-stage DC/DC converter with separated commutation
Ivakhno, Volodymyr; Zamaruev, Vladimir; Lastovka, A.; **Blinov, Andrei**; **Vinnikov, Dmitri** Технічна електродинаміка 2011 / p. 88-92 : ill

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

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

Address from General Chairman
Vinnikov, Dmitri 12th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Kuressaare, Estonia, June 11-16, 2012 2012 / p. 3

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

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

Advanced course of power electronics : laboratory works
Jalakas, Tanel; **Vodovozov, Valery**; **Vinnikov, Dmitri** 2008 https://www.ester.ee/record=b2375135*est

Akadeemik Dmitri Vinnikov : jõuelektroonika on võtmetehnoloogia energia- ja rohepöörde väljakutsetes
Vinnikov, Dmitri Eesti Teaduste Akadeemia sõnas ja pildis 2021 2022 / lk. 25-30 : ill https://www.ester.ee/record=b5054043*est

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

An improved high-power DC/DC converter for distributed power Generation [Electronic resource]
Vinnikov, Dmitri; **Roasto, Indrek**; **Jalakas, Tanel** EPQU'09 : 10th International Conference on Electrical Power Quality and Utilisation : 15-17 September 2009, Lodz, Poland 2009 / [6] p. [CD-ROM]

An improved high-voltage IGBT-based half-bridge converter for railway applications
Vinnikov, Dmitri; **Laugis, Juhan** Fourth International Conference and Exhibition on Ecological Vehicles & Renewable Energies : March 26-29, 2009, Monaco : one-page abstract proceeding 2009 / [1] p

An improved high-voltage IGBT-based half-bridge DC/DC converter for railway applications
Vinnikov, Dmitri; **Laugis, Juhan** COMPEL : The international journal for computation and mathematics in electrical and electronic engineering 2011 / p. 280-299 : ill https://www.emerald.com/insight/content/doi/10.1108/03321641111091566/full/html

An improved interface converter for a medium-power wind-hydrogen system
Vinnikov, Dmitri; **Hõimoja, Hardi**; **Andrijanovitš, Anna**; **Roasto, Indrek**; **Lehtla, Tõnu**; Klytta, Marius 2nd International Conference on Clean Electrical Power Renewable Energy Resources Impact : Capri (Italy) June 9-11, 2009 2009 / p. 426-432 : ill

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

Analysis and design of 3.3 kV IGBT based three-level DC/DC converter with high-frequency isolation and current doubler rectifier
Vinnikov, Dmitri; **Jalakas, Tanel**; **Roasto, Indrek** Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2009 / p. 97-102 : ill

Analysis and design of ultracapacitor-boosted back-up power supply for tramcars [Electronic resource]
Hõimoja, Hardi; **Vinnikov, Dmitri**; **Jalakas, Tanel** EUROCON 2009 : International IEEE Conference devoted to the 150-anniversary of Alexander S.Popov : May 18-23, 2009 Saint Petersburg, Russia 2009 / p. 598-604 [CD-ROM]
https://ieeexplore.ieee.org/document/5167691

Analysis and evaluation of PWM and PSM shoot-through control methods for voltage-fed qZSI based DC/DC converters
Roasto, Indrek; **Vinnikov, Dmitri** EPE-PEMC 2010 : 14th International Power Electronics and Motion Control Conference : 6-8 September 2010, Ohrid, Republic of Macedonia 2010 / p. T3-100 - T3-105

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

Analysis of capacitor-related mid-voltage point shift problems in high-voltage half-bridge DC/DC converters
Roasto, Indrek; **Vinnikov, Dmitri**; **Lehtla, Tõnu** Proceedings of 2008 IEEE 39th Annual Power Electronics Specialists Conference : PESC 2008 : Rhodes, Greece, 15-19 June 2008 2008 / p. 3619-3622

Analysis of capacitor-related mid-voltage point shift problems in high-voltage half-bridge DC/DC converters
Roasto, Indrek; **Vinnikov, Dmitri**; **Lehtla, Tõnu** PESC 08 : 39th IEEE Annual Power Electronics Specialists Conference : Rhodes, Greece, 15-19 June 2008 : book of one page paper summaries 2008 / p. 573 https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=4592517

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 current doubler rectifier based high frequency isolation stage for intelligent transformer [Electronic resource]
Beldjajev, Viktor; **Roasto, Indrek**; **Vinnikov, Dmitri** CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 336-341 [CD-ROM]

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 drawbacks and reconst[r]uction problems of the R2-type train
Laugis, Juhan; **Vinnikov, Dmitri**; **Boiko, Vitali** The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 355-358 : ill

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 implementation possibilities and benefits of three-level half-bridge NPC topology in static auxiliary converters for rolling stock [Electronic resource]
Vinnikov, Dmitri; **Jalakas, Tanel**; **Roasto, Indrek** POWERENG 2009 : 2nd International Conference on Power Engineering, Energy and Electrical Drives : 18-20 March, 2009, Lisbon, Portugal 2009 / p. 587-592 : ill. [CD-ROM]
https://ieeexplore.ieee.org/document/4915180

Analysis of operating modes of the novel isolated interface converter for PMSG based wind turbines
Bisenieks, Lauris; **Vinnikov, Dmitri**; **Zakis, Janis** POWERENG2011 : proceedings of the 2011 International Conference on Power Engineering, Energy and Electrical Drives : Torremolinos (Málaga), Spain, May 11-13, 2011 2011 / [8] p.: ill
https://ieeexplore.ieee.org/document/6036538

Analysis of operating modes of the step-up DC/DC converter with a commutating LC-filter
Zakis, Janis; Rankis, Ivars; **Vinnikov, Dmitri** Технічна електродинаміка 2011 / p. 87-92 : ill
https://ortus.rtu.lv/science/en/publications/11242

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 state of the art and development trends in soft-switched half-bridge DC/DC converters
Egorov, Mikhail; **Vinnikov, Dmitri**; **Vodovozov, Valery** 6th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : [Kuressaare, January 12-17, 2009] 2009 / p. 49-54 : ill

Analysis of state-of-the-art converter topologies for interfacing of hydrogen buffer with renewable energy systems
Andrijanovitš, Anna; Steiks, Ingars; **Zakis, Janis**; **Vinnikov, Dmitri** Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2011 / p. 87-94 : ill https://ui.adsabs.harvard.edu/abs/2011SJRUP..29...87A/abstract

Analysis of switching conditions of IGBTs in modified sine wave qZSIs operated with different shoot-through control methods
Vinnikov, Dmitri; **Roasto, Indrek**; **Zakis, Janis**; **Ott, Silver**; **Jalakas, Tanel** Elektronika ir elektrotechnika = Electronics and electrical engineering 2011 / p. 45-50 : ill
https://www.researchgate.net/publication/269779178_Analysis_of_Switching_Conditions_of_IGBTs_in_Modified_Sine_Wave_qZSIs_Operated_with_Different_Shoot-Through_Control_Methods

Analysis of switching properties of different high voltage IGBTs operating under hard-switching conditions
Blinov, Andrei; **Jalakas, Tanel**; **Vinnikov, Dmitri**; **Laugis, Juhan** BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 323-326 : ill

Analytical and experimental investigation of neutral point clamped quasi-impedance-source inverter
Ott, Silver; **Roasto, Indrek**; **Vinnikov, Dmitri**; **Lehtla, Tõnu** Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2011 / p. 113-118 : ill

Analytical comparison between capacitor assisted and diode assisted cascaded quasi-Z-source inverters
Vinnikov, Dmitri; **Roasto, Indrek**; **Jalakas, Tanel**; Strzelecki, Ryszard; Adamowicz, Marek Przeglad elektrotechniczny = Electrical review 2012 / p. 212-217 : ill
https://www.researchgate.net/publication/290652933_Analytical_comparison_between_capacitor_assisted_and_diode_assisted_cascaded_quasi-Z-source_inverters

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 ultracapacitors in low-voltage power supply systems of light rail vehicles
Hõimoja, Hardi; **Vinnikov, Dmitri**; Strzelecki, Ryszard The 2009 World Congress on Electronics and Electrical Engineering : WCEEENG'09 : April 6-9, 2009, Cairo, Egipt 2009 / [5] p

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

Asymmetrical PWM control of galvanically isolated impedance-source series resonant DC-DC converters
Vinnikov, Dmitri; **Zakis, Janis**; **Chub, Andrii**; **Liivik, Elizaveta** 2016 10th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : proceedings : Opera Nova's Congress Center, Bydgoszcz, Poland, 29. June - 01. July, 2016 2016 / p. 341-346 : ill https://doi.org/10.1109/CPE.2016.7544211

Asymmetrical quasi-Z-source half-bridge DC-DC converters
Vinnikov, Dmitri; **Chub, Andrii**; **Liivik, Liisa** 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 369-372 : ill
http://dx.doi.org/10.1109/CPE.2015.7231103

Automotive applications of ultracapacitors
Boiko, Vitali; **Vinnikov, Dmitri**; **Liivik, Liisa** Summer Seminar on Nordic Network for Multi Disciplinary Optimised Electric Drives 2002 / ? p

Auxiliary power converter for a tram
Vinnikov, Dmitri; **Lehtla, Madis** Summer Seminar on Nordic Network for Multi Disciplinary Optimised Electric Drives 2002 / ? p

Auxiliary power supplies for the light rail vehicles : research and development
Vinnikov, Dmitri 2009 https://www.amazon.com/AUXILIARY-POWER-SUPPLIES-LIGHT-VEHICLES/dp/3838303695

Auxiliary voltage converter for Tallinn trams: stages of development
Vinnikov, Dmitri Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Kuressaare, Estonia, January 19-24, 2004 2004 / p. 62-65 : ill

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

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 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 operation of the single-phase neutral-point-clamped quasi-Z-source inverter
Husev, Oleksandr; **Zakis, Janis**; **Vinnikov, Dmitri**; Savenko, O. BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 221-224 : ill

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 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 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

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

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

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

Carrier based modulation with capacitor balancing for three-level neutral-point-clamped qZS inverter
Romero-Cadaval, Enrique; Roncero-Clemente, Carlos; **Husev, Oleksandr**; **Vinnikov, Dmitri** 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 57-62 : ill http://dx.doi.org/10.1109/CPE.2015.7231049

Cascaded quasi-Z-source inverters for renewable energy generation systems
Adamowicz, Marek; Strzelecki, Ryszard; **Vinnikov, Dmitri** Proceedings of 5th International Conference and Exhibition on Ecological Vehicles and Renewable Energies : March 25-28, 2010, Grimaldi Forum, Monaco 2010 / [8] p

CCM and DCM analysis of Quasi-Z-Source derived push-pull DC/DC converter
Chub, Andrii; **Husev, Oleksandr**; **Blinov, Andrei**; **Vinnikov, Dmitri** Journal of microelectronics, electronic components and materials 2014 / p. 224-234 : ill

CCM and DCM operation analysis of cascaded quasi-z-source inverter
Vinnikov, Dmitri; **Roasto, Indrek**; Strzelecki, Ryszard; Adamowicz, Marek Proceedings of IEEE International Symposium on Industrial Electronics : ISIE'2011 : 27-30 June 2011, Gdansk, Poland 2011 / p. 159-164 : ill

CCM operation analysis of the single-phase three-level quasi-Z-source inverter
Husev, Oleksandr; Roncero-Clemente, Carlos; **Stepenko, Serhii**; **Vinnikov, Dmitri**; Romero-Cadaval, Enrique 15th International Power Electronics and Motion Control Conference, EPE-PEMC 2012 ECCE Europe, Novi Sad, Serbia 2012 / p. DS1b.21-1-DS1b.21-6 : ill https://ieeexplore.ieee.org/document/6397221

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

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

CM voltage compensator for DC/DC converters [Electronic resource]
Smolenski, Robert; Jarnut, Marcin; Bojarski, Jacek; **Blinov, Andrei**; **Vinnikov, Dmitri** CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 264-268 : ill [CD-ROM] https://ieeexplore.ieee.org/document/6601167

Code development of a DSP-FPGA based control platform for power electronics applications
Minambres-Marcos, Victor; **Roasto, Indrek**; Szczepankowski, P.; Romero-Cadaval, Enrique; **Vinnikov, Dmitri**; Barrero-Gonzalez, Fermin 2015 IEEE International Conference on Industrial Technology (ICIT 2015) : Seville, Spain, 17-19 March 2015 2015 / p. 2890-2895 : ill

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

Compact design of a power circuit for a dual-output voltage converter
Vinnikov, Dmitri; **Lehtla, Tõnu** BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 333-336 : ill

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 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 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 review of long-term energy storage technologies for renewable energy systems
Andrijanovitš, Anna; **Hõimoja, Hardi**; **Vinnikov, Dmitri** Elektronika ir elektrotechnika = Electronics and electrical engineering 2012 / p. 21-26 : ill

Comparative study of capacitor-assisted extended boost qZSIs operating in continuous conduction mode
Vinnikov, Dmitri; **Roasto, Indrek**; **Jalakas, Tanel** BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 297-300 : ill

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 rectifier topologies for quasi-Z-source derived push-pull converter
Chub, Andrii; **Husev, Oleksandr**; **Vinnikov, Dmitri** Elektronika ir elektrotechnika = Electronics and electrical engineering 2014 / p. 29-34 : ill

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

Comparison of 2- and 3-level Half-Bridge DC/DC converters for high-voltage high-power applications
Vinnikov, Dmitri; Strzelecki, Ryszard Przeglad elektrotechniczny = Electrical review 2009 / 10, p. 217-221
https://www.researchgate.net/publication/283654804_Comparison_of_2-and_3-level_half-bridge_DCDC_converters_for_high-voltage_high-power_applications

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 control methods for high-voltage high-power three-level half-bridge DC/DC converters [Electronic resource]
Roasto, Indrek; **Vinnikov, Dmitri**; Galkin, Ilja 6th International Conference-Workshop Compatibility and Power Electronics : May 20-22, 2009 : CPE 2009 : conference proceedings 2009 / p. 258-264 : ill. [CD-ROM] https://www.researchgate.net/publication/241160163_Comparison_of_control_methods_for_high-voltage_high-power_three-level_half-bridge_DCDC_converters

Comparison of different microcontroller development boards for power electronics applications
Roasto, Indrek; **Vinnikov, Dmitri**; **Lehtla, Tõnu** 5th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology : Kuressaare, January 14-19, 2008 2008 / p. 103-107 : ill

Comparison of full power and partial power buck-boost DC-DC converters for residential battery energy storage applications
Hassanpour, Naser; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri** 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 6 l https://doi.org/10.1109/CPE-POWERENG54966.2022.9880862

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 impedance-source networks for two and multilevel buck-boost inverter applications
Husev, Oleksandr; Blaabjerg, Frede; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Vinnikov, Dmitri**; Siwakoti, Yam P.; Strzelecki, Ryszard IEEE transactions on power electronics 2016 / p. 7564-7579 : ill https://doi.org/10.1109/TPEL.2016.2569437 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparison of interface converter topologies for small- or medium-power wind-hydrogen systems
Andrijanovitš, Anna; **Vinnikov, Dmitri**; **Hõimoja, Hardi**; Klytta, Marius 6th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : [Kuressaare, January 12-17, 2009] 2009 / p. 122-127 : ill

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 (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 pulse width modulation methods for a quasi impedance source inverter
Ott, Silver; **Roasto, Indrek**; **Vinnikov, Dmitri** 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II 2011 / p. 25-29 : ill

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 three MPPT algorithms for three-level neutral-point-clamped qZ-Source inverter [Electronic resource]
Roncero-Clemente, Carlos; **Husev, Oleksandr**; Minambres-Marcos, Victor; **Stepenko, Serhii**; Romero-Cadaval, Enrique; **Vinnikov, Dmitri** CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 80-85 : ill [CD-ROM] https://ieeexplore.ieee.org/document/6601133

Comparison of three-phase isolated DC/DC converters with Z- and quasi-Z-source inverters
Egorov, Mikhail; **Vinnikov, Dmitri**; Strzelecki, Ryszard; Adamowicz, Marek 7th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Narva-Jõesuu, Estonia, 16.06-19.06.2009] 2009 / p. 9-14 : ill

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 https://doi.org/10.1109/TIA.2024.3452069

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 / 42 p https://doi.org/10.1109/OJPEL.2024.3466936

Control basics of a flywheel-powered uninterruptible motor drive
Hõimoja, Hardi; **Vinnikov, Dmitri**; **Rosin, Argo** BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 289-292 : ill

Control methodology of the rolling stock auxiliary power supply
Roasto, Indrek; **Vinnikov, Dmitri** 4th International Symposium Topical Problems of Education in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 15-20, 2007 2007 / p. 122-125 : ill

Control of quasi-Z-source dc-dc converter by the overlap of active states : new possibilities and limitations
Roasto, Indrek; **Liivik, Liisa**; **Vinnikov, Dmitri** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 217-220 : ill

A control strategy for a grid-connected PV system with unbalanced loads compensation
Fernao Pires, Vitor; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Martins, Joao 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 154-159 : ill https://doi.org/10.1109/CPE.2015.7231065

Control system simulation of a 40kW half-bridge isolated DC/DC converter [Electronic resource]
Roasto, Indrek; **Vinnikov, Dmitri** EPE 2007 : 12th European Conference on Power Electronics and Applications : 2-5 September 2007, Aalborg, Denmark 2007 / [10] p. [CD-ROM] https://ieeexplore.ieee.org/document/4417224

Cooling methods for high voltage IGBTs
Blinov, Andrei; **Vinnikov, Dmitri** 6th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : [Kuressaare, January 12-17, 2009] 2009 / p. 134-139 : ill

Cooling methods for high-power electronic systems
Blinov, Andrei; **Vinnikov, Dmitri**; **Lehtla, Tõnu** Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2011 / p. 79-86 : ill

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

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 control strategy of a grid connected three-level neutral-point-clamped qZS inverter
Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Stepenko, Serhii 13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 14-19, 2013 2013 / p. 97-101 : ill

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

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

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 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 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

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

Decentralized control of a UPS systems operating in parallel
Strzelecki, Ryszard; **Vinnikov, Dmitri** BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 297-300 : ill

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 development challenges of power electronics converters for the rolling stock
Jalakas, Tanel; **Vinnikov, Dmitri**; **Laugis, Juhan** Intelligent Technologies in Logistics and Mechatronics Systems : ITELMS'2008 : proceedings of the 3rd International Workshop : May 22-23, 2008, Panevežys, Lithuania 2008 / p. 17-22 : ill

Design and development of 3.3 kV IGBT based three-level DC/DC converter
Vinnikov, Dmitri; **Roasto, Indrek** Electrical engineering research report 2009 / [6] p

Design and development of the middle-frequency isolation transformer for the high-voltage DC/DC converter [Electronic resource]
Vinnikov, Dmitri; **Lehtla, Tõnu**; Strzelecki, Ryszard; **Galkin, Ilja** The 4th International Scientific Conference of The Military Technical College [Korby El-Kobbah, Cairo, Egypt] : 27-29 May 2008. Proceedings of the 6th ICEENG Conference : 27-29 May, 2008 2008 / p. EE045 [CD-ROM] https://iceeng.journals.ekb.eg/article_34344_6860ebd9ad2e69cac2e12bfef8d5546c.pdf

Design and development of three-level half-bridge NPC converter with dual 3.3 kV IGBT modules
Jalakas, Tanel; **Vinnikov, Dmitri**; **Roasto, Indrek** 6th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : [Kuressaare, January 12-17, 2009] 2009 / p. 43-48 : ill

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 issues of integrated magnetics for quasi-Z-source inverters
Zakis, Janis; **Vinnikov, Dmitri** ISEF 2011 - XV International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering : Funchal, Madeira, September 1-3, 2011 2011 / [8] p.: ill

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 guidelines of new step-up DC/DC converter for fuel cell powered distributed generation systems
Zakis, Janis; **Vinnikov, Dmitri**; **Roasto, Indrek**; Strzelecki, Ryszard 8th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Pärnu, January 11-16, 2010 : proceedings] 2010 / p. 33-41 : ill

Design issues of redundant protection and supervision system for the special purpose power converters [Electronic resource]
Vinnikov, Dmitri; **Roasto, Indrek**; **Vodovozov, Valery** International Conference on Renewable Energies and Power Quality : ICREPQ'09 : Valencia, Spain, 15th to 17th April 2009 2009 / [6] p. [CD-ROM] https://www.icrepq.com/ICREPQ%2709/356-vinnikov.pdf

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 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

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 verification of control and protection algorithms for the special purpose high power converters
Roasto, Indrek; **Vinnikov, Dmitri**; **Vodovozov, Valery** Intelligent Technologies in Logistics and Mechatronics Systems : ITELMS'2008 : proceedings of the 3rd International Workshop : May 22-23, 2008, Panevežys, Lithuania 2008 / p. 23-27 : ill

Development of 50-kW isolated DC/DC converter with high-voltage IGBTs
Vinnikov, Dmitri; **Jalakas, Tanel**; **Laugis, Juhan** Przeglad elektrotechniczny 2007 / p. 103-107

Development of 50-kW isolated DC/DC converter with high-voltage IGBTs [Electronic resource]
Jalakas, Tanel; **Vinnikov, Dmitri**; **Laugis, Juhan** Proceedings of 5th International Conference 2007 : Compatibility in Power Electronics : 29 May - 1 June 2007, Gdynia, Poland 2007 / [6] p. [CD-ROM]

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 auxiliary power supplies for the 3.0 kV DC rolling stock [Electronic resource]
Vinnikov, Dmitri; **Laugis, Juhan**; **Jalakas, Tanel** ISIE2007 : 2007 IEEE International Symposium on Industrial Electronics : June 4-7, 2007, Vigo, Spain 2007 / p. 359-364 [CD-ROM]

Development of auxiliary power supplies for the 3.0 kV DC rolling stock
Vinnikov, Dmitri; **Laugis, Juhan**; **Jalakas, Tanel** ISIE2007 : 2007 IEEE International Symposium on Industrial Electronics : June 4-7, 2007, Vigo, Spain : abstract book 2007 / p. 61 https://ieeexplore.ieee.org/document/4374624

Development of auxiliary pover supply for tram
Vinnikov, Dmitri; **Lehtla, Madis** BEC 2002 : proceedings of the 8th Biennial Baltic Electronics Conference : October 6-9, 2002, Tallinn, Estonia 2002 / p. 389-390 : ill

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 current mode control algorithms for high-power half-bridge DC/DC converters
Roasto, Indrek; **Vinnikov, Dmitri**; **Jalakas, Tanel**; Strzelecki, Ryszard Przeglad elektrotechniczny 2011 / p. 180-186 : ill http://www.red.pe.org.pl/articles/2011/8/36.pdf

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 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

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

Doctoral School of Energy and Geotechnology II : closing conference of the project : Pärnu, Estonia, January 12-17, 2015
2015 https://www.ester.ee/record=b4448632*est

Droop control implementation in bidirectional step-up/down Partial power converter for battery energy storage applications
Hassanpour, Naser; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri** 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p https://doi.org/10.1109/RTUCON60080.2023.10413064

Dual-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 behaviour of qZS-based bi-directional DC/DC converter in supercapacitor charging mode [Electronic resource]
Zakis, Janis; **Vinnikov, Dmitri**; **Husev, Oleksandr**; Rankis, Ivars SPEEDAM 2012 : Sorrento (Italy) - June 20-22, 2012 : 21st edition of the International Symposium on Power Electronics, Electrical drives, Automation and Motion 2012 / p. 764-768 : ill [CD-ROM]

Dynamic positioning system for the multifunctional vessel EVA-316
Subarev, Kirill; **Vinnikov, Dmitri**; **Laugis, Juhan** 8th International Workshop on Research and Education in Mechatronics 2007 : 14-15 June 2007, Tallinn, Estonia 2007 / p. 142-145 : ill

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

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

Editorial : special issue on impedance-source converter topologies and applications
Vinnikov, Dmitri; Li, Yuan; Abu-Rub, Haitham IEEE Transactions on Power Electronics 2016 / p. 7417-7418
https://doi.org/10.1109/TPEL.2016.2577418 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Eesti elektriraudtee kontaktvõrgu seisund ja väljavaated
Boiko, Vitali; **Vinnikov, Dmitri** Elektriala 2004 / 1, lk. 24-25 : ill

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

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 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

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 improvement from topology modification of the single-switch isolated quasi-Z-source DC-DC converter [Online resource]
Liivik, Elizaveta; **Chub, Andrii**; **Vinnikov, Dmitri** 2016 57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : October 13, 14, 2016 : conference proceedings 2016 / [7] p. : ill
https://doi.org/10.1109/RTUCON.2016.7763118

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 optimization of the high-power isolated DC/DC converters through THD and losses reduction in isolation transformers [Electronic resource]
Vinnikov, Dmitri; **Bolgov, Viktor** International Conference on Renewable Energies and Power Quality : ICREPQ'09 : Valencia, Spain, 15th to 17th April, 2009 2009 / [7] p. : ill. [CD-ROM]
https://www.researchgate.net/publication/237808470_Efficiency_Optimization_of_the_High-Power_Isolated_DCDC_Converters_through_THD_and_Losses_Reduction_in_Isolation_Transformers

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 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

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 fast charger high voltage input multiport converter topology analysis [Electronic resource]
Jalakas, Tanel; **Roasto, Indrek**; **Vinnikov, Dmitri** CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 326-331 : ill [CD-ROM]

An electrolytic capacitor-less multiple-output LED driver with a universal input voltage
Awad, Khaled; **Abdel-Rahim, Omar**; 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

Electronic systems of motor drive
Vodovozov, Valery; **Vinnikov, Dmitri** 2008 http://www.ester.ee/record=b2384912*est

Electronics and semiconductor engineering : laboratory works
Jalakas, Tanel; **Vodovozov, Valery**; **Vinnikov, Dmitri** 2008 https://www.ester.ee/record=b2373748*est

Elektersõidukite sisetoiteallikaist
Vinnikov, Dmitri Elektriala 2002 / 1, lk. 12-13 : ill

Elektriajamite elektroonsed süsteemid
Vodovozov, Valery; **Vinnikov, Dmitri**; **Jansikene, Raik** 2008 http://www.ester.ee/record=b2384926*est

Elektrirongide ER1 ja ER2 veoajami energiavoogude analüüs
Vinnikov, Dmitri; **Boiko, Vitali** Elektriala 2005 / 1, lk. 28-29 : ill

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

EMC considerations on PCB design for a high-power converter control system [Electronic resource]
Roasto, Indrek; **Vinnikov, Dmitri**; Klytta, Marius Proceedings of 5th International Conference 2007 : Compatibility in Power Electronics : 29 May - 1 June 2007, Gdynia, Poland 2007 / [4] p. [CD-ROM] https://ieeexplore.ieee.org/document/4296544

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

EMI problems of the high frequency 3-phase rectifier
Vinnikov, Dmitri; **Lehtla, Tõnu**; **Joller, Jüri** 3rd International Scientific Workshop "Compatibility in Power Electronics" (CPE 2003) : Gdansk-Zielona Gora, Poland, 28-30 May, 2003 2003 / p. 159-161

Energiasäästu võimalustest Eesti elektrilises ühistranspordis
Vinnikov, Dmitri Elektriala 2000 / 1, lk. 12-13: ill https://artiklid.elnet.ee/record=b1003229*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

Energy storage for 1500 V photovoltaic systems : A comparative reliability analysis of DC-and AC-Coupling
He, Jinkui; Yang, Yongheng; **Vinnikov, Dmitri** Energies 2020 / art. 3355, 16 p. : ill https://doi.org/10.3390/en13133355 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Energy storage for 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 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 high-voltage switch based on parallel connection of IGBT and IGCT [Electronic resource]
Blinov, Andrei; **Vinnikov, Dmitri**; Ivakhno, Volodymyr CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 360-364 [CD-ROM]
https://www.researchgate.net/publication/252015928_Energy-efficient_high-voltage_switch_based_on_parallel_connection_of_IGBT_and_IGCT

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

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 different high-voltage switch solutions for high-power converters used in rolling stock [Electronic resource]
Vinnikov, Dmitri; **Laugis, Juhan**; **Jalakas, Tanel** ISIE08 : 2008 IEEE International Symposium on Industrial Electronics : 30 June - 2 July 2008, Cambridge, United Kingdom 2008 / p. 214-219 : ill. [CD-ROM] https://ieeexplore.ieee.org/document/4677124

Evaluation of different loss calculation methods for high-voltage IGBT-s under small load conditions
Jalakas, Tanel; **Vinnikov, Dmitri**; **Laugis, Juhan** EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : abstracts 2008 / p. 50 https://ieeexplore.ieee.org/document/4635442

Evaluation of different loss calculation methods for high-voltage IGBT-s under small load conditions [Electronic resource]
Jalakas, Tanel; **Vinnikov, Dmitri**; **Laugis, Juhan** EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : proceedings 2008 / p. 1286-1290 : ill. [CD-ROM]
https://ieeexplore.ieee.org/document/4635442

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

Evaluative analysis of 2- and 3-level DC/DC converters for high-voltage high-power applications [Electronic resource]
Vinnikov, Dmitri; **Egorov, Mikhail**; Strzelecki, Ryszard 6th International Conference-Workshop Compatibility and Power Electronics : May 20-22, 2009 : CPE 2009 : conference proceedings 2009 / p. 432-437 [CD-ROM]

Experimental analysis of extended boost quasi-Z-source inverters
Ott, Silver; **Jalakas, Tanel**; **Vinnikov, Dmitri**; **Roasto, Indrek** BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 259-262 : ill

Experimental analysis of extended boost quasi-Z-source inverters
Ott, Silver; **Jalakas, Tanel**; **Roasto, Indrek**; **Vinnikov, Dmitri** 12th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Kuressaare, Estonia, June 11-16, 2012 2012 / p. 65-67 : ill

Experimental analysis of the dynamic performance of Si, GaAs and SiC diodes
Blinov, Andrei; **Vinnikov, Dmitri**; **Rang, Toomas** BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 49-52 : ill

Experimental analysis of wide input voltage range qZS-derived push-pull DC/DC converter for PMSG-based wind turbines
Blinov, Andrei; **Vinnikov, Dmitri**; **Husev, Oleksandr**; **Chub, Andrii** PCIM Europe 2013 : International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management, Nuremberg, 14.-16. May 2013 : proceedings 2013 / p. 1435-1444 : ill

Experimental comparison of two-level full-SiC and three-level Si–SiC quasi-Z-source inverters for PV applications
Stepenko, Serhii; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos; **Pimentel, Sergio Pires**; **Santasheva, Elena**

Emerging converter topologies and control for grid connected photovoltaic systems 2021 / P. 121-137 : ill https://doi.org/10.3390/books978-3-03943-910-2

Experimental comparison of two-level full-SiC and three-level Si–SiC quasi-Z-source inverters for PV applications
Stepenko, Serhii; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos; **Pires Pimentel, Sergio**; **Santasheva, Elena** Energies 2019 / 2509 ; 17 p. : ill https://doi.org/10.3390/en12132509 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Experimental 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 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 results of parallel active filter implementation in nonideal power grid
Husev, Oleksandr; **Blinov, Andrei**; **Vinnikov, Dmitri** Technological Inovation for Value Creation : third IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2012, Costa de Caparica, Portugal, February 27-29, 2012 : proceedings 2012 / p. 291-298 : ill https://link.springer.com/chapter/10.1007/978-3-642-28255-3_32

Experimental study of high step-up quasi-Z-source DC-DC converter with synchronous rectification
Liivik, Liisa; **Chub, Andrii**; **Vinnikov, Dmitri**; **Zakis, Janis** 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 409-414 : ill http://dx.doi.org/10.1109/CPE.2015.7231110

Experimental study of new integrated DC/DC converter for hydrogen-based energy storage
Vinnikov, Dmitri; **Andrijanovitš, Anna**; **Roasto, Indrek**; **Jalakas, Tanel** 2011 10th International Conference on Environment and Electrical Engineering (EEEIC), 8-11 May 2011, Rome, Italy : conference proceedings 2011 / [4 p.] : ill https://ieeexplore.ieee.org/document/5874667

Experimental study of shoot-through control methods for qZSI-based DC/DC converters [Electronic resource]
Roasto, Indrek; **Vinnikov, Dmitri**; **Jalakas, Tanel**; **Zakis, Janis**; **Ott, Silver** SPEEDAM 2010 : International Symposium on Power Electronics, Electrical Drives, Automation and Motion : Pisa, Italy, 14th-16th June, 2010 : proceedings 2010 / p. 29-34 : [CD-ROM]

Experimental study of voltage-fed quasi-z-source inverter based isolated DC/DC converter
Vinnikov, Dmitri; **Roasto, Indrek**; Strzelecki, Ryszard Electrical engineering research report 2009 / [7] p

Experimental verification of DC/DC converter with full-bridge active rectifier
Blinov, Andrei; Ivakhno, Volodymyr; Zamaruev, Vladimir; **Vinnikov, Dmitri**; **Husev, Oleksandr** IECON 2012 : 38th Annual Conference of the IEEE Industrial Electronics Society : Industrial Electronics for Sustainable Development 2012 / p. 5179-5184 : ill https://ieeexplore.ieee.org/document/6389549

Experimental verification of novel bi-directional qZSI based DC/DC converter for short term energy storage systems [Electronic resource]
Zakis, Janis; **Vinnikov, Dmitri**; **Roasto, Indrek**; Ribickis, Leonids International Conference on Renewable Energies and Power Quality (ICREPQ'11) : Las Palmas de Gran Canaria (Spain), 13th to 15th April 2011 2011 / [5] p. : ill. [CD-ROM] https://www.icrepq.com/icrepq%2711/550-zakis.pdf

Extended boost quasi-Z-source inverters : possibilities and challenges
Vinnikov, Dmitri; **Roasto, Indrek**; **Jalakas, Tanel**; **Ott, Silver** Elektronika ir elektrotechnika = Electronics and electrical engineering 2011 / p. 51-56 : ill

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

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

Fault detection and protection system for the power converters with high-voltage IGBTs [Electronic resource]
Vinnikov, Dmitri; **Roasto, Indrek**; **Lehtla, Tõnu** ICECS 2008 : The 15th IEEE International Conference on Electronics, Circuits and Systems : August 31 - September 3, 2008, Malta 2008 / p. 922-925 : ill. [CD-ROM] https://ieeexplore.ieee.org/document/4675005

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 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-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 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 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

Feasibility study of 200 kW half-bridge and full-bridge DC/DC converters with 6.5 kV IGBTs
Vinnikov, Dmitri; **Lehtla, Madis** 19th International Symposium on Power Electronics, Electrical Drives, Automation and Motion : Speedam 2008 : Ischia (Italy), June 11th-13th, 2008 : conference proceedings 2008 / p. 1537-1541 : ill. [CD-ROM] https://ieeexplore.ieee.org/document/4581238

Feasibility study of flexible systems for reactive power compensation
Zakis, Janis; **Vinnikov, Dmitri**; **Laugis, Juhan**; Rankis, Ivars Технічна електродинаміка 2010 / 2, p. 16-21 : ill https://ortus.rtu.lv/science/en/publications/11210

Feasibility study of half- and full-bridge isolated DC/DC converters in high-voltage high-power applications
Vinnikov, Dmitri; **Jalakas, Tanel**; **Egorov, Mikhail** EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : abstracts 2008 / p. 49 https://ieeexplore.ieee.org/document/4635441/similar#similar

Feasibility study of half- and full-bridge isolated DC/DC converters in high-voltage high-power applications [Electronic resource]
Vinnikov, Dmitri; **Jalakas, Tanel**; **Egorov, Mikhail** EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : proceedings 2008 / p. 1271-1277 : ill. [CD-ROM] https://ieeexplore.ieee.org/document/4635441/similar#similar

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 Si and SiC MOSFETs in high-gain DC/DC converter for renewable energy applications
Blinov, Andrei; **Chub, Andrii**; **Vinnikov, Dmitri**; **Rang, Toomas** Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 5975-5978 : ill

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

Feed drive of a lathe
Egorov, Mikhail; **Vinnikov, Dmitri**; **Vodovozov, Valery** 5th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology : Kuressaare, January 14-19, 2008 2008 / p. 163-169 : ill

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 models of electric motor drives
Vodovozov, Valery; **Vinnikov, Dmitri** Технічна електродинамика 2008 / 3, с. 89-91

Four level inverter's DC bus voltage balancing with 3-Terminal DAB converter
Grabarek, Maciej; Strzelecki, Ryszard; Tomasov, Valentin S.; **Vinnikov, Dmitri** 2016 10th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : proceedings : Opera Nova's Congress Center, Bydgoszcz, Poland, 29. June - 01. July, 2016 2016 / p. 396-401 : ill https://doi.org/10.1109/CPE.2016.7544221

Four novel PWM shoot-through control methods for impedance source DC-DC converters
Vinnikov, Dmitri; **Roasto, Indrek**; **Liivik, Liisa**; **Blinov, Andrei** Journal of power electronics 2015 / p. 299-308 : ill

14th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology. II" : Pärnu, Estonia, January 13-18, 2014
2014 http://www.ester.ee/record=b3050698*est

FPGA control of the neutral point clamped quasi-Z-source inverter
Stepenko, Serhii; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Ivanets, Sergey BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 263-266 : ill

Front-end active rectifier for grid-connected PMSG based wind turbines
Husev, Oleksandr; Bisenieks, Lauris; **Vinnikov, Dmitri** Вісник Чернігівського державного технологічного університету. Серія "Технічні науки" = Journal of Chernigiv State Technological University 2011 / p. 132-138 : ill

Full soft-switching high step-up DC-DC converter for photovoltaic applications
Blinov, Andrei; **Vinnikov, Dmitri**; Ivakhno, Volodymyr 2014 16th European Conference on Power Electronics and Applications (EPE'14-ECCE Europe) : Lappeenranta, Finland, 26-28 August 2014. Vol. 4 2014 / p. 2951-2957 : ill

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

Galvanically isolated quasi-Z-source DC-DC converter with a novel ZVS and ZCS technique
Husev, Oleksandr; **Liivik, Liisa**; **Blaabjerg, Frede**; **Chub, Andrii**; **Vinnikov, Dmitri**; **Roasto, Indrek** IEEE transactions on industrial electronics 2015 / p. 7547-7556 : ill https://doi.org/10.1109/TIE.2015.2455522 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Galvanically isolated quasi-Z-source DC-DC converters with combined energy transfer for renewable energy sources integration
Chub, Andrii; **Vinnikov, Dmitri**; **Jalakas, Tanel** 2015 IEEE International Conference on Industrial Technology (ICIT 2015) : Seville, Spain, 17-19 March 2015 2015 / p. 2896-2900 : ill

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

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 reactive power compensation by using electric vehicles
Gallardo-Lozano, Javier; Romero-Cadaval, Enrique; Minambres-Marcos, Victor; **Vinnikov, Dmitri**; **Jalakas, Tanel**; **Hõimoja, Hardi** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 19-24 : ill

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 photovoltaic systems : an overview of recent research and emerging PV converter technology
Kouro, Samir; Leon, Jose I.; **Vinnikov, Dmitri**; Franquelo, Leopoldo G. IEEE industrial electronics magazine 2015 / p. 47-61 : ill https://doi.org/10.1109/MIE.2014.2376976 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Grid-connected PV system based on a single-phase three-level qZS inverter
Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Stepenko, Serhii Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 5979-5984 : ill

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

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

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-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 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-performance buck-boost partial power quasi-Z-source series resonance converter
Abdel-Rahim, Omar; **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

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 auxiliary power supply with the simplified power circuit topology for the DC trains [Electronic resource]
Vinnikov, Dmitri; **Laugis, Juhan** Proceedings of the 9th International Conference "Electrical Power Quality and Utilisation" : EPQU'2007 : Barcelona, Spain, October 9-11, 2007 2007 / [6] p. [CD-ROM] https://ieeexplore.ieee.org/document/4424227

High-voltage half-bridge IGBT inverter [Electronic resource]
Vinnikov, Dmitri; **Laugis, Juhan** Proceedings of 16th International Conference on Electrical Drives and Power Electronics EDPE'2007 : The High Tatras (Slovakia), 24-26 September, 2007 2007 / [6] p. [CD-ROM]

High-voltage IGBT based converters for rolling stock : possibilities and challenges
Roasto, Indrek; **Jalakas, Tanel**; **Vinnikov, Dmitri** 2011 https://www.amazon.com/HIGH-VOLTAGE-BASED-CONVERTERS-ROLLING-STOCK/dp/3843391211

High-voltage switch realization possibilities for the 3.0 kV DC fed voltage converters
Vinnikov, Dmitri ELECO'2007 : 5th International Conference on Electrical and Electronics Engineering : 5-9 December 2007, Bursa, Turkey 2007 / ? p

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 IGBT-IGCT switch
Blinov, Andrei; **Vinnikov, Dmitri** 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 161-164 : ill

Hybrid IGBT-IGCT switch
Blinov, Andrei; **Vinnikov, Dmitri**; Ivakhno, Volodymyr; Zamaruev, Vladimir Przeglad elektrotechniczny = Electrical review 2012 / p. 12-15 : ill https://www.researchgate.net/publication/290550726_Hybrid_IGBT-IGCT_Switch

Hybrid low-power Wind Generation and PV grid-connected system with HPC, PC and MPPT control
Rosa, Carlos; **Vinnikov, Dmitri**; Romero-Cadaval, Enrique; Pires, Vitor; Martins, Joao Proceedings : 2014 IEEE 23rd International Symposium on Industrial Electronics (ISIE) : Grand Cevahir Hotel and Convention Center, Istambul, Turkey, 01-04 June, 2014 2014 / p. 2024-2029 : ill

A hydrogen technology as buffer for stabilization of wind power generation
Andrijanovitš, Anna; **Egorov, Mikhail**; **Lehtla, Madis**; **Vinnikov, Dmitri** 8th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Pärnu, January 11-16, 2010 : proceedings] 2010 / p. 62-70 : ill https://www.ester.ee/record=b2549033*est

Hysteresis current control with distributed shoot-through states for impedance source inverters
Husev, Oleksandr; **Chub, Andrii**; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos; **Vinnikov, Dmitri** International journal of circuit theory and applications 2016 / p. 783-797 : ill https://doi.org/10.1002/cta.2106 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

Impact of component losses on the voltage boost properties and efficiency of the QZS-converter family
Roasto, Indrek; **Vinnikov, Dmitri** COMPEL : The international journal for computation and mathematics in electrical and electronic engineering 2012 / p. 1945-1963 : ill https://www.emerald.com/insight/content/doi/10.1108/03321641211267227/full/html

Impact of component losses on the voltage boost properties and efficiency of the qZS-converter family [Electronic resource]
Vinnikov, Dmitri; **Roasto, Indrek** CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 303-308 [CD-ROM]
https://www.researchgate.net/publication/241185271_Impact_of_component_losses_on_the_voltage_boost_properties_and_efficiency_of_the_QZS-converter_family

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

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 galvanically isolated DC/DC converters : state of the art and future challenges
Liivik, Liisa; **Chub, Andrii**; **Vinnikov, Dmitri** 2014 55th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings 2014 / p. 67-74 : ill

Impedance-source inverter-based high-power DC/DC converter for fuel cell applications
Egorov, Mikhail; **Vinnikov, Dmitri**; Strzelecki, Ryszard; Adamowicz, Marek 8 EEEIC International Conference on Environment and

Electrical Engineering : Karpacz, Poland, 10-13.May 2009 2009 / p. 57-60 : ill http://eeeic.org/proc/papers/109.pdf

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 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 high-voltage IGBTs in power electronic converters for the rolling stock
Vinnikov, Dmitri; **Laugis, Juhan**; Frolov, S.; Matvejev, J. Технічна електродинаміка 2007 / 4, p. 109-114 : ill

Implementation possibilities of hybrid IGBT-IGCT switches in three-level NPC inverters
Blinov, Andrei; **Vinnikov, Dmitri**; Ivakhno, Volodymyr; Zamaruev, Vladimir COMPEL : the international journal for computation and mathematics in electrical and electronic engineering 2012 / p. 1917-1930 : ill

Implementation possibilities of SMD capacitors for high power applications
Zakis, Janis; **Vinnikov, Dmitri** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2012 / p. 18-23 : ill https://intapi.sciendo.com/pdf/10.2478/v10314-012-0003-2

Implementation possibilities of SMD capacitors for high power applications
Zakis, Janis; **Vinnikov, Dmitri** Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and the 1st Congress of World Engineers and Riga Polytechnical Institute/RTU Alumni : 11-12 October 2012, Riga, Latvija : [abstracts] 2012 / p. 128 : ill https://intapi.sciendo.com/pdf/10.2478/v10314-012-0003-2

Implementation possibilities of SMD capacitors for high power applications
Zakis, Janis; **Vinnikov, Dmitri** Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and The 1st Congress of World Engineers and Riga Polytechnical Institute : RTU Alumni, Paper 31 of Subsection of Power Electronic Converters and Applications 2012 / 6 p. : ill https://intapi.sciendo.com/pdf/10.2478/v10314-012-0003-2

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

Improved switched-inductor quasi-switched-boost inverter with low input current ripple
Chub, Andrii; **Liivik, Liisa**; **Zakis, Janis**; **Vinnikov, Dmitri** 2015 56th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2015 / p. 221-226 : ill

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

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 slot wedge material on permanent magnet losses in a traction motor with tooth coil windings

Lindh, Pia; **Vaimann, Toomas**; **Kallaste, Ants**; Pyrhönen, Juha; **Vinnikov, Dmitri**; Naumanen, Ville International journal of applied electromagnetics and mechanics 2013 / p. 227-236 : ill

Influence of specific requirements on the design of auxiliary power supply for a light rail vehicle
Vinnikov, Dmitri; **Lehtla, Tõnu** 2nd International Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Kuressaare, Estonia, January 17-22, 2005 2005 / p. 93-97 : ill

Influence of wedge material on losses of a traction motor with tooth-coil windings
Lindh, Pia; Pyrhönen, Juha; Ponomarev, P.; **Vinnikov, Dmitri** Proceedings IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 2941-2946 : ill

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

Input-parallel output-series cascading possibilities of single-switch galvanically isolated quasi-Z-source DC-DC converters
Liivik, Elizaveta; **Chub, Andrii**; **Vinnikov, Dmitri** 2016 2nd International Conference on Intelligent Energy and Power Systems (IEPS) : Kyiv, Ukraine, June 7-11, 2016 : conference proceedings 2016 / [6] p. : ill https://doi.org/10.1109/IEPS.2016.7521873

Input-parallel output-series connection of isolated quasi-Z-source DC-DC converters
Chub, Andrii; **Husev, Oleksandr**; **Vinnikov, Dmitri** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 277-284 : ill

Interinstitutional activity in professional training in power electronics
Vodovozov, Valery; **Vinnikov, Dmitri**; **Laugis, Juhan**; **Lehtla, Tõnu** Технічна електродинамика 2008 / 7, с. 58-61 : ил https://ieeexplore.ieee.org/document/4581146

Interinstitutional activity in professional training in power electronics [Electronic resource]
Vodovozov, Valery; **Vinnikov, Dmitri**; **Laugis, Juhan**; **Lehtla, Tõnu** 19th International Symposium on Power Electronics, Electrical Drives, Automation and Motion : Speedam 2008 : Ischia (Italy), June 11th-13th, 2008 : conference proceedings 2008 / p. 492-495 : ill. [CD-ROM] https://ieeexplore.ieee.org/document/4581146

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

Interlock delay time and its influence on the operability and efficiency of high-power DC/DC converters
Vinnikov, Dmitri; **Bolgov, Viktor** Przeglad elektrotechniczny = Electrical review 2009 / 10, p. 222-227 : ill https://www.researchgate.net/publication/291967052_Interlock_Delay_Time_and_its_Influence_on_the_Operability_and_Efficiency_of_High-Power_DCDC_Converters

Interlock delay time minimization and its impact on the high-voltage half-bridge DC/DC converter
Jalakas, Tanel; **Vinnikov, Dmitri**; **Lehtla, Tõnu**; **Bolgov, Viktor** 6th International Conference-Workshop Compatibility and Power Electronics : May 20-22, 2009 : CPE 2009 : conference proceedings 2009 / p. 438-443 [CD-ROM]

Interlock delay time minimization and its impact on the high-voltage half-bridge DC/DC converter [Electronic resource]
Jalakas, Tanel; **Vinnikov, Dmitri**; **Lehtla, Tõnu**; **Bolgov, Viktor** 2009 Compatibility and Power Electronics CPE 2009 : 6th International Conference-Workshop 2009 / p. 438-443 : ill. [CD-ROM]

Isolated DC/DC converter topology with a three-phase intermediate AC-link
Vinnikov, Dmitri 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. 241-244 : ill

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

Jõuelektroonika on võtmetehnoloogia energia- ja rohepöörde ülesannetes
Arvamus, kultuur : [ajalehe Postimees lisa] 2022 / lk. 10 https://dea.digar.ee/article/ak/2022/04/02/7.1 "Jõuelektroonika on võtmetehnoloogia energia- ja rohepöörde ülesannetes"

Kergrööbassõidukite ajamid ja juhtimine
Laugis, Juhan; **Lehtla, Tõnu**; **Joller, Jüri**; **Rosin, Argo**; **Vinnikov, Dmitri**; **Lehtla, Madis** 2008
http://www.ester.ee/record=b2394445*est

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

Laboratory setup for studying ultracapacitors in industrial applications
Roasto, Indrek; **Vinnikov, Dmitri**; **Lehtla, Tõnu** EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : abstracts 2008 / p. 77-78 https://ieeexplore.ieee.org/document/4635561

Laboratory setup for studying ultracapacitors in industrial applications [Electronic resource]
Roasto, Indrek; **Vinnikov, Dmitri**; **Lehtla, Tõnu** EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : proceedings 2008 / p. 2034-2037 : ill. [CD-ROM]
https://ieeexplore.ieee.org/document/4635561

Laboratory setup for teaching an advanced course of power electronics
Jalakas, Tanel; **Vinnikov, Dmitri**; **Vodovozov, Valery** 5th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology : Kuressaare, January 14-19, 2008 2008 / p. 149-154 : ill

Light load operation of 6,5 kV 200 A IGBTs in half-bridge configuration [Electronic resource]
Jalakas, Tanel; **Vinnikov, Dmitri**; **Laugis, Juhan** 19th International Symposium on Power Electronics, Electrical Drives, Automation and Motion : Speedam 2008 : Ischia (Italy), June 11th-13th, 2008 : conference proceedings 2008 / p. 1373-1378 : ill. [CD-ROM]

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

Load leveling and loss minimization in tram systems - possibilities and challenges
Vinnikov, Dmitri; **Hõimoja, Hardi**; **Rosin, Argo**; **Egorov, Mikhail** Технічна електродинамика 2009 / Тематический выпуск: Силова електроніка та енергоефективність. 1, с. 83-88 : ill

Loss calculation methods of half-bridge square-wave inverters
Blinov, Andrei; **Vinnikov, Dmitri**; **Jalakas, Tanel** Elektronika ir elektrotechnika = Electronics and electrical engineering 2011 / p. 9-14 : ill https://eejournal.ktu.lt/index.php/elt/article/view/604

Lossless dynamic models of the quasi-Z-source converter family
Vinnikov, Dmitri; Husev, Oleksandr; **Roasto, Indrek** Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2011 / p. 73-78 https://ui.adsabs.harvard.edu/abs/2011SJRUP..29...73V/abstract

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

Low-power home PV systems with MPPT and PC control modes [Electronic resource]
Rosa, Carlos; **Vinnikov, Dmitri**; Romero-Cadaval, Enrique; Pires, Vitor; Martins, Joao CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 58-62 : ill [CD-ROM]

Low-power Wind Generation grid-connected system with MPPT and PC control
Rosa, Carlos; **Vinnikov, Dmitri**; Romero-Cadaval, Enrique; Pires, Vitor; Martins, Joao Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 5989-5994 : ill

Madis Lehtla - uus tehnikateaduste doktor
Vinnikov, Dmitri Elektriala 2006 / lk. 17

Magnetically integrated high step-up resonant DC-DC converter for distributed photovoltaic systems
Vinnikov, Dmitri; **Chub, Andrii**; **Liivik, Elizaveta**; Blaabjerg, Frede 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.

7691-7697 : ill https://doi.org/10.1109/IECON.2017.8217348

Mathematical models of cascaded quasi-impedance source converter
Vinnikov, Dmitri; **Roasto, Indrek**; **Zakis, Janis** Технічна електродинаміка 2010 / 1, p. 59-64 : ill https://ortus.rtu.lv/science/lv/publications/11212

Maximizing energy harvest of the impedance source PV Microconverter under partial shading conditions
Vinnikov, Dmitri; **Chub, Andrii**; **Liivik, Elizaveta**; Blaabjerg, Frede; Kouro, Samir CPE-POWERENG 2018 : Conference program : 12th IEEE International Conference on Compatibility, Power Electronics and Power Engineering, 10-12 April, 2018, Doha, Qatar 2018 / 7 p.: ill https://indd.adobe.com/view/bdbda104-4e24-4d7b-88b1-f84ccfd20748 https://doi.org/10.1109/CPE.2018.8372556

Maximum boost control for interleaved single-phase quasi-Z-source inverter
Roncero-Clemente, Carlos; **Stepenko, Serhii**; **Husev, Oleksandr**; Romero-Cadaval, Enrique; **Vinnikov, Dmitri** 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. 7698-7703 : ill https://doi.org/10.1109/IECON.2017.8217349

Maximum power point tracking algorithm for step-up/down partial power converters with improved performance around zero partiality
Yadav, Neelesh; **Chub, Andrii**; **Hassanpour, Naser**; **Blinov, Andrei**; **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-POWERENG58103.2023.10227506

Method for improvement of electromagnetic rail brake performance for light rail vehicles
Hõimoja, Hardi; **Laugis, Juhan**; **Vinnikov, Dmitri** Intelligent Technologies in Logistics and Mechatronics Systems : ITELMS'2009 : proceedings of the 4th International Conference : June 04-05, 2009, Panevežys, Lithuania 2009 / p. 7-12 : ill

Middle-frequency isolation transformer design issues for the high-voltage DC/DC converter
Vinnikov, Dmitri; **Laugis, Juhan**; **Galkin, Ilja** Proceedings of 2008 IEEE 39th Annual Power Electronics Specialists Conference : PESC 2008 : Rhodes, Greece, 15-19 June 2008 2008 / p. 1930-1936 https://ieeexplore.ieee.org/document/4592226

Middle-frequency isolation transformer design issues for the high-voltage DC/DC converter
Vinnikov, Dmitri; **Laugis, Juhan**; **Galkin, Ilja** PESC 08 : 39th IEEE Annual Power Electronics Specialists Conference : Rhodes, Greece, 15-19 June 2008 : book of one page paper summaries 2008 / p. 304 : ill https://ieeexplore.ieee.org/document/4592226

Mission profile-based accelerated testing of DC-link capacitors in photovoltaic inverters
Sangwongwanich, Ariya; Shen, Yanfeng; **Chub, Andrii**; **Liivik, Elizaveta**; **Vinnikov, Dmitri**; Wang, Huai; Blaabjerg, Frede Thirty-Fourth Annual IEEE Applied Power Electronics Conference and Exposition, March 17 – 21, 2019, Anaheim, California 2019 / p. 2833-2840 : ill https://doi.org/10.1109/APEC.2019.8721794 Conference proceedings at Scopus Article at Scopus Article at WOS

Model predictive control for buck-boost inverter based on unfolding circuit
Matiushkin, Oleksandr; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 431-436 : ill https://doi.org/10.1109/UKRCON.2019.8879870

Model predictive control of a single-stage flying inductor based buck-boost grid-connected cmmon-ground inverter
Rahimpour, Saeed; **Matiushkin, Oleksandr**; **Kurdkandi, Naser Vosoughi**; **Najafzadeh, Mahdiyyeh**; **Husev, Oleksandr**; **Vinnikov, Dmitri** 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/RTUCON53541.2021.9711711

Model-based diagnosis of power converters
Vodovozov, Valery; **Raud, Zoja**; **Vinnikov, Dmitri** Технічна електродинамика 2009 / Тематический выпуск: Силова електроніка та енергоефективність. 2, с. 38-43

Modeling, analysis, and implementations of charging systems for vehicle electrification
Vinnikov, Dmitri; **Blinov, Andrei**; Rathore, Akshay Kumar Vehicle electrification in modern power grids : Disruptive perspectives on power electronics technologies and control challenges 2024 / p. 75-99 https://doi.org/10.1016/B978-0-443-13969-7.00004-7

Modernisation of trams in Estonia
Laugis, Juhan; **Lehtla, Tõnu**; **Pettai, Elmo**; **Joller, Jüri**; **Rosin, Argo**; **Lehtla, Madis**; **Vinnikov, Dmitri** The 6-th International Conference on Unconventional Electromechanical and Electrical Systems : UEES'04. Vol. 2 of 3 2004 / p. 561-564

Modernization of electrical transport systems in Estonia
Laugis, Juhan; **Lehtla, Tõnu**; **Joller, Jüri**; **Boiko, Vitali**; **Vinnikov, Dmitri**; **Lehtla, Madis** 10th International Power Electronics and Motion Control Conference : EPE-PEMC 2002, Cavtat & Dubrovnik : 9-11 September 2002, Cavtat & Dubrovnik, Croatia 2002

Modified DQ control approach for three-phase inverter

Makovenko, Elena; **Husev, Oleksandr**; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Vinnikov, Dmitri** 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [3] p. : ill http://dx.doi.org/10.1109/RTUCON.2017.8124800

Modified high voltage gain soft-switched quasi-switched boost inverter
Abbasi Aghdam Meinagh, Farhad; Babaei, Ebrahim; **Vinnikov, Dmitri**; **Chub, Andrii** 2019 IEEE International Conference on Industrial Technology, ICIT 2019 : Melbourne, Australia, 13-15 February 2019 : proceedings 2019 / p. 1087-1092 : ill https://doi.org/10.1109/ICIT.2019.8755041

Modified Q-Z-Source DC Circuit Breaker for Next-Generation Electric Aircrafts
Aditya, P.; Venkata Raghavendra, I.; Banavath, Satish Naik; **Chub, Andrii**; Song, Xiaoqing; **Vinnikov, Dmitri**; Wang, Fred 2023 IEEE Applied Power Electronics Conference and Exposition (APEC) 2023 / p. 1049–1056
https://doi.org/10.1109/APEC43580.2023.10131532 Conference proceedings at Scopus Article at Scopus Article at WOS

Modular battery charger for light electric vehicles
Blinov, Andrei; Verbytskyi, Ievgen; **Zinchenko, Denys**; **Vinnikov, Dmitri**; Galkin, Ilja Energies 2020 / art. 774, 21 p. : ill
https://doi.org/10.3390/en13040774 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Modular MV naturally balanced converter with high-frequency isolation and no DC-Link capacitor for EV fast charging
Blinov, Andrei; **Chub, Andrii**; Guler, Naki; Bayhan, Sertac; Parsa, Leila; **Vinnikov, Dmitri** IEEE Transactions on Transportation Electrification 2024 / 9 p https://doi.org/10.1109/TTE.2024.3399329

MPPT and GMPPT Implementation for Buck-Boost Mode Control of quasi-Z-Source Inverter
Husev, Oleksandr; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos; Blaabjerg, Frede; Strzelecki, Ryszard IEEE transactions on industrial electronics 2022 / p. 11348 - 11358 https://doi.org/10.1109/TIE.2021.3125658 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Multicell-type current regulator based on Cuk converter for resistance welding
Verbytskyi, Ievgen; Bondarenko, Oleksandr; **Vinnikov, Dmitri** 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [6] p. : ill
https://doi.org/10.1109/RTUCON.2017.8124844

Multi-mode quasi-Z-source series resonant DC/DC converter for wide input voltage range applications
Vinnikov, Dmitri; **Chub, Andrii**; **Roasto, Indrek**; **Liivik, Liisa** Applied Power Electronics Conference and Exposition : APEC 2016 : Long Beach Convention & Entertainment Center, March 20-24, 2016 2016 / p. 2533-2539 : ill
https://doi.org/10.1109/APEC.2016.7468221 Conference Proceedings at Scopus Article at Scopus Article at WOS

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

Multiport converter with integrated energy storage for hydrogen buffer interfacing with renewable energy systems [Electronic resource]
Andrijanovitš, Anna; **Blinov, Andrei**; **Husev, Oleksandr**; **Vinnikov, Dmitri** 2012 IEEE International Conference on Industrial Technology : proceedings CD 2012 / p. 235-240 : ill [CD-ROM] https://ieeexplore.ieee.org/document/6209943

Multiport DC/DC converters for interfacing of hydrogen buffer with wind turbine
Andrijanovitš, Anna; **Vinnikov, Dmitri** 9th International Symposium "Topical problems in the field of electrical and power engineering". Doctoral school of energy and geotechnology. II : Pärnu, Estonia, June 14-19, 2010 2010 / p. 95-99 : ill

Multi-port i-AFE converter for grid-interactive buildings: design requirements and efficiency evaluation
Carvalho da Silva, Edivan Laercio; **Blinov, Andrei**; **Chub, Andrii**; **Galkin, Ilya**; **Vinnikov, Dmitri** 2023 IEEE 8th Southern Power Electronics Conference and 17th Brazilian Power Electronics Conference (SPEC/COBEP) 2023 / 5 p
https://doi.org/10.1109/SPEC56436.2023.10408230

Neuro-fuzzy control system for active filter with load adaptation [Electronic resource]
Husev, Oleksandr; Ivanets, Sergey; **Vinnikov, Dmitri** CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 28-33 [CD-ROM]

https://ieeexplore.ieee.org/document/5942202

Neutral point clamped quasi-impedance-source inverter [Electronic resource]
Ott, Silver; **Roasto, Indrek**; **Vinnikov, Dmitri** CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 348-353 [CD-ROM]
https://www.semanticscholar.org/paper/Neutral-point-clamped-quasi-impedance-source-Ott-Roasto/547db91f89adecec7c854cc3e4b811934890b7a6

Neutral-point-clamped quasi-Z-source inverter with field-programmable gate array based control
Stepenko, Serhii; **Husev, Oleksandr**; **Vinnikov, Dmitri** 12th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Kuressaare, Estonia, June 11-16, 2012 2012 / p. 76-77 : ill

New active clamp circuit for current-fed galvanically isolated DC/DC converters [Electronic resource]
Zakis, Janis; **Vinnikov, Dmitri**; Kolosov, Valery; Vasechko, Evgen CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 353-358 : ill [CD-ROM]

New bi-directional DC/DC converter for supercapacitor interfacing in high-power applications
Vinnikov, Dmitri; **Roasto, Indrek**; **Zakis, Janis** EPE-PEMC 2010 : 14th International Power Electronics and Motion Control Conference : 6-8 September 2010, Ohrid, Republic of Macedonia 2010 / p. T11-38 - T11-43 : ill
https://www.researchgate.net/publication/224184374_New_bi-directional_DCDC_converter_for_supercapacitor_interfacing_in_high-power_applications

New bidirectional multiport DC/DC converter for interfacting of hydrogen buffer with wind turbines
Andrijanovitš, Anna; **Vinnikov, Dmitri** 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 85-90 : ill

New converter for interfacing PMSG based small-scale wind turbine with residential power network [Electronic resource]
Bisenieks, Lauris; **Vinnikov, Dmitri**; Galkin, Ilja CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 354-359 [CD-ROM]
https://ieeexplore.ieee.org/abstract/document/5942260

New converter topologies for integration of hydrogen based long-term energy storages to renewable energy systems = Uued muundurite topoloogiad vesinikul põhinevate energiasalvestite integreerimiseks taastuvenergiasüsteemidesse
Andrijanovitš, Anna 2013 http://www.ester.ee/record=b2946972*est

A new coupled-inductor-based buck/boost DC/DC converter with soft switching for DC microgrid applications
Maheri, Hamed Mashinchi; Heris, Pedram Chavoshipour; Saadatizadeh, Zahra; Babaei, Ebrahim; **Vinnikov, Dmitri** IEEE 15th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2021 / p. 1-6
https://doi.org/10.1109/CPE-POWERENG50821.2021.9501195

A new flying capacitor-based buck-boost converter for dual-purpose applications
Hemmati Shahsavar, Tala; **Vosoughi Kurdkandi, Naser**; **Husev, Oleksandr**; Babaei, Ebrahim; Sabahi, Mehran; Khoshkbar-Sadigh, Arash; **Vinnikov, Dmitri** IEEE journal of emerging and selected topics in industrial electronics 2023 / p. 447-459
https://doi.org/10.1109/JESTIE.2023.3238322

New fuel cell power conditioning system for supplying dedicated loads
Vinnikov, Dmitri; **Roasto, Indrek**; **Jalakas, Tanel**; **Lehtla, Tõnu**; **Laugis, Juhan** 2010 9th International Conference on Environment and Electrical Engineering : Prague, Czech Republic, 16-19 May 2010 2010 / p. 341-344 : ill
https://ieeexplore.ieee.org/document/5489939

A new high step-up NPC-based switched-capacitor seven-level grid-tied inverter for PV applications
Marangalu, M.; Mashinchi Maheri, Hamed; **Vinnikov, Dmitri**; **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/RTUCON60080.2023.10413150

A new high step-up switched-capacitor/inductor based DC-DC converter
Mashinchi Maheri, Hamed; Saadatizadeh, Zahra; Chavoshipour Heris, Pedram; Babaei, Ebrahim; 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 https://doi.org/10.1109/RTUCON53541.2021.9711590

New high-gain non-inverting buck-boost converter
Abdelrahim Abdelghafour, Omar Mohamed; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / p. 1-6 : ill https://doi.org/10.1109/IECON48115.2021.9590003 Proceedings at Scopus Article at Scopus Article at WOS

New high-gain step-up DC/DC converter for a fuel cell interfacing in hydrogen buffer

Vinnikov, Dmitri; **Husev, Oleksandr**; **Andrijanovitš, Anna**; **Roasto, Indrek** Технічна електродинаміка 2011 / p. 93-100 : ill

New high-gain step-up DC/DC converter with high-frequency isolation
Vinnikov, Dmitri; **Zakis, Janis**; **Husev, Oleksandr**; Strzelecki, Ryszard 2012 Twenty-Seventh Annual IEEE Applied Power Electronics Conference and Exposition (APEC), Orlando (FL), USA, 5-9 Feb. 2012 2012 / p. 1204-1209 : ill
https://ieeexplore.ieee.org/document/6165972

A new high-power DC/DC converter for residential fuel cell power systems [Electronic resource]
Vinnikov, Dmitri; **Jalakas, Tanel**; **Roasto, Indrek** 11th Spanish Portuguese Conference on Electrical Engineering (11CHLIE) : 1-4 of July 2009, Zaragoza, Spain 2009 / [6] p. [CD-ROM]

New hysteresis current control for grid connected single-phase three-level quasi-Z-source inverter
Husev, Oleksandr; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique APEC 2014 : Twenty-Ninth Annual IEEE Applied Power Electronics Conference and Exposition : March 16–20, 2014, Fort Worth Convention Center - Fort Worth, Texas 2014 / p. 1765-1770 : ill

New integrated converter for hydrogen buffer interfacing in distributed energy systems [Electronic resource]
Vinnikov, Dmitri; **Andrijanovitš, Anna**; **Roasto, Indrek**; **Lehtla, Tõnu** International Conference on Renewable Energies and Power Quality (ICREPQ'11) : Las Palmas de Gran Canaria (Spain), 13th to 15th April 2011 2011 / [6] p. : ill. [CD-ROM]
https://www.researchgate.net/publication/316913371_New_integrated_converter_for_hydrogen_buffer_interfacing_in_distributed_energy_systems

New interleaved single-phase quasi-Z-source inverter with active power decoupling
Stepenko, Serhii; Roncero-Clemente, Carlos; **Husev, Oleksandr**; **Makovenko, Elena**; Pires Pimentel, Sergio; **Vinnikov, Dmitri** 2018 IEEE 12th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2018) : Doha, Qatar, 10-12 April 2018 2018 / p. 437-442 : ill https://doi.org/10.1109/CPE.2018.8372558

New isolated converter for interfacing PMSG based wind turbine with distribution network
Bisenieks, Lauris; **Vinnikov, Dmitri**; Galkin, Ilja 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 100-107 : ill

New isolated interface converter for grid-connected PMSG based wind turbines
Bisenieks, Lauris; **Vinnikov, Dmitri**; Galkin, Ilja 2011 10th International Conference on Environment and Electrical Engineering (EEEIC), 8-11 May 2011, Rome, Italy : conference proceedings 2011 / p. 869-872 : ill https://www.semanticscholar.org/paper/New-isolated-interface-converter-for-grid-connected-Bisenieks-Vinnikov/cac34f4cd26e3b2bb3306ab7c542bf6fc75dd48b

New isolated interface converter for PMSG based variable speed wind turbines
Vinnikov, Dmitri; Bisenieks, Lauris; Galkin, Ilja Przeglad elektrotechniczny = Electrical review 2012 / p. 75-80 : ill
https://alephfiles.rtu.lv/TUA01/000042552_e.pdf

A new master-slave based centralized control method for an AC microgrid with multiple distributed energy resources
Habibnia, Saba; Mahdavi, Mohammad Saeed; Gharehpetian, Gevork B.; **Ahmadiahangar, Roya**; **Rosin, Argo**; **Vinnikov, Dmitri** IEEE 13th International Symposium on Power Electronics for Distributed Generation Systems (PEDG) 2022 / 6 p.
https://doi.org/10.1109/PEDG54999.2022.9923216

New Method for Stabilization of Wind Power Generation Using Energy Storage Technology
Andrijanovitš, Anna; **Egorov, Mikhail**; **Lehtla, Tõnu**; **Vinnikov, Dmitri** Agronomy research 2010 / S1, p. 12-24 : ill

New modulation technique for three-level quasi-Z-source inverter
Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Husev, Oleksandr**; **Vinnikov, Dmitri** 12th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Kuressaare, Estonia, June 11-16, 2012 2012 / p. 68-71 : ill

New shoot-through control methods for qZSI-based DC/DC converters
Roasto, Indrek; **Vinnikov, Dmitri**; **Zakis, Janis**; **Husev, Oleksandr** IEEE transactions on industrial informatics 2013 / p. 640-647 : ill

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

A new single-phase flying inductor-based common grounded converter for dual-purpose application
Husev, Oleksandr; **Vosoughi Kurdkandi, Naser**; **Marangalu, Milad Ghavipanjeh**; **Vinnikov, Dmitri**; Hosseini, Seyed Hossein IEEE transactions on industrial electronics 2023 / p. 7913-7923 https://doi.org/10.1109/TIE.2022.3215832 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

New step-up DC/DC converter for fuel cell powered distributed generation systems: some design guidelines

Vinnikov, Dmitri; Strzelecki, Ryszard; Zakis, Janis; **Roasto, Indrek** Przeglad elektrotechniczny 2010 / 8, p. 245-252

New step-up DC/DC converter with high-frequency isolation
Vinnikov, Dmitri; **Roasto, Indrek**; **Jalakas, Tanel** IECON 2009 : 35th Annual Conference of the IEEE Industrial Electronics Society : Porto, Portugal, 3-5 November 2009 : preprint proceedings 2009 / p. 667-672 : ill https://ieeexplore.ieee.org/document/5415000

New step-up DC/DC converter with high-frequency isolation
Vinnikov, Dmitri; **Roasto, Indrek**; **Jalakas, Tanel** IECON 2009 : 35th Annual Conference of the IEEE Industrial Electronics Society. ICELIE 2009 : 3rd IEEE International Conference on E-learning in Industrial Electronics : Porto, Portugal, 3-5 November 2009 : abstracts 2009 / p. 280 https://ieeexplore.ieee.org/document/5415000

New voltage mode control method for the quasi-Z-source-based isolated DC/DC converters [Electronic resource]
Roasto, Indrek; **Vinnikov, Dmitri** 2012 IEEE International Conference on Industrial Technology : proceedings CD 2012 / p. 655-660 : ill [CD-ROM] https://ieeexplore.ieee.org/document/6210011

Non-shoot-through mode behavior of DC/DC converters with a quasi Z source inverter
Jalakas, Tanel; **Roasto, Indrek**; **Vinnikov, Dmitri** 15th International Power Electronics and Motion Control Conference, EPE-PEMC 2012 ECCE Europe, Novi Sad, Serbia 2012 / 4 p. : ill https://ieeexplore.ieee.org/document/6397204

Novel approach immune to partial shading for photovoltaic energy harvesting from building integrated PV (BIPV) solar roofs
Chub, Andrii; **Korkh, Oleksandr**; **Kosenko, Roman**; **Vinnikov, Dmitri** 2018 20th European Conference on Power Electronics and Applications (EPE'18 ECCE Europe) : Riga, Latvia, 17-21 September 2018 2018 / p. 2243-2252 : ill https://ieeexplore.ieee.org/document/8515623

Novel concept of solar converter with universal applicability for DC and AC microgrids
Husev, Oleksandr; **Matiushkin, Oleksandr**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos; Kouro, Samir IEEE transactions on industrial electronics 2022 / p. 4329-4341 : ill https://doi.org/10.1109/TIE.2021.3086436 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A novel extendable high gain step up DC-DC converter
Mashinchi Maheri, Hamed; Salehi Vala, Sama; Basit Mirza, Abdul; Babaei, Ebrahim; **Vinnikov, Dmitri** 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2021 / p. 1-6 https://doi.org/10.1109/RTUCON53541.2021.9711745

Novel family of modified qZS buck-boost multilevel inverters with reduced switch count
Husev, Oleksandr; Strzelecki, Ryszard; **Blaabjerg, Frede**; Chopyk, Vasiliy; **Vinnikov, Dmitri** 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 98-105 : ill http://dx.doi.org/10.1109/CPE.2015.7231056

Novel family of quasi-Z-source DC/DC converters derived from current-fed push-pull converters
Chub, Andrii; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Blaabjerg, Frede 2014 16th European Conference on Power Electronics and Applications (EPE'14-ECCE Europe) : Lappeenranta, Finland, 26-28 August 2014. Vol. 4 2014 / p. 3175-3184 : ill

Novel family of single-phase modified impedance-source buck-boost multilevel inverters with reduced switch count
Husev, Oleksandr; Strzelecki, Ryszard; Blaabjerg, Frede; Chopyk, Vasiliy; **Vinnikov, Dmitri** IEEE transactions on power electronics 2016 / p. 7580-7591 : ill https://doi.org/10.1109/TPEL.2016.2569535 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Novel family of single-stage buck-boost inverters based on unfolding circuit
Husev, Oleksandr; **Matiushkin, Oleksandr**; **Roncero-Clemente, Carlos**; Blaabjerg, Frede; **Vinnikov, Dmitri** IEEE transactions on power electronics 2019 / p. 7662-7676 : ill https://doi.org/10.1109/TPEL.2018.2879776 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A novel flying inductor based grid-connected inverter with buck-boost ability
Vosoughi Kurdkandi, Naser; **Husev, Oleksandr**; **Rahimpour, Saeed**; Roncero-Clemente, Carlos; **Matiushkin, Oleksandr**; **Vinnikov, Dmitri** IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / 6 p https://doi.org/10.1109/IECON49645.2022.9968954 Conference proceedings at Scopus Article at Scopus

A novel high-voltage half-bridge converter with phase-shifted active rectifier [Electronic resource]
Blinov, Andrei; Ivakhno, Volodymyr; Zamaruev, Vladimir; **Vinnikov, Dmitri**; **Husev, Oleksandr** 2012 IEEE International Conference on Industrial Technology : proceedings CD 2012 / p. 967-970 : ill [CD-ROM] https://ieeexplore.ieee.org/document/6210062

A novel hysteresis power point optimizer for distributed solar power generation
Veligorskyi, Oleksandr; **Husev, Oleksandr**; **Kosenko, Roman**; **Vinnikov, Dmitri** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 12-22 : ill https://doi.org/10.2478/ecce-2018-0002

A novel isolated Buck-Boost DC-DC converter with wide range of voltage regulations
Afshari, Hossein; **Husev, Oleksandr**; **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-POWERENG58103.2023.10227443

Novel isolated high step-up DC-DC converter with wide input voltage regulation range
Pourjafar, Saeed; **Mohseni, Parham**; **Matiushkin, Oleksandr**; **Husev, Oleksandr**; **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/RTUCON60080.2023.10413102

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

Novel quasi-Z-source derived inverter with unfolding circuit and battery storage
Makovenko, Elena; **Husev, Oleksandr**; **Vinnikov, Dmitri** 2018 IEEE 12th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2018) : Doha, Qatar, 10-12 April 2018 2018 / p. 431-436 : ill https://doi.org/10.1109/CPE.2018.8372557

A novel single-phase common-grounded converter based on switched-capacitor
Kurdkandi, Naser Vosoughi; **Husev, Oleksandr**; **Matiushkin, Oleksandr**; **Vinnikov, Dmitri**; Gao, Wei; Chunting, Chris Mi IEEE transactions on power electronics 2024 / p. 16201-16216 https://doi.org/10.1109/TPEL.2024.3444769

Novel space vector pulse width modulation strategies for single-phase three-level NPC impedance-source inverters
Shults, Tatiana; **Husev, Oleksandr**; Blaabjerg, Frede; Roncero, Carlos; Romero-Cadaval, Enrique; **Vinnikov, Dmitri** IEEE transactions on power electronics 2019 / p. 4820-4830: ill https://doi.org/10.1109/TPEL.2018.2859194 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Novel universal power electronic interface for integration of pv modules and battery energy storages in residential DC microgrids
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri**; Lindvest, Andre IEEE Access 2023 / p. 30845-30858 https://doi.org/10.1109/ACCESS.2023.3260640 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Operation and design of series-resonant current-source full-bridge dc-dc converter
Verbytskyi, levgen; **Blinov, Andrei**; **Vinnikov, Dmitri**; Peftitsis, Dimosthenis IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / 6 p https://doi.org/10.1109/IECON48115.2021.9589548 Conference Proceedings at Scopus Article at Scopus Article at WOS

Operation of the step-up/down bidirectional partial power converter near zero series voltage
Hassanpour, Naser; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227425

Operation strategy and shoot-through indirect control method for three-phase Z-source inverters
Roncero-Clemente, Carlos; **Husev, Oleksandr**; Romero-Cadaval, Enrique; **Vinnikov, Dmitri**; Milanes-Montero, Maria Isabel 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 576-581 : ill http://dx.doi.org/10.1109/PowerEng.2015.7266380

Optimal LCL-filter study for buck-boost inverter based on unfolding circuit
Matiushkin, Oleksandr; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 467-472 : ill https://doi.org/10.1109/CPE-POWERENG48600.2020.9161683

Optimal tuning of resonant and repetitive based controller for single-phase buck-boost inverter with unfolding circuit
Husev, Oleksandr; **Belikov, Juri**; **Matiushkin, Oleksandr**; **Vinnikov, Dmitri**; **Ahmadiahangar, Roya**; **Vosoughi Kurdkandi, Naser** IEEE journal of emerging and selected topics in industrial electronics 2022 / p. 954-965 https://doi.org/10.1109/JESTIE.2021.3121190

Optimization and Design of Planar Transformer for the High Frequency Link Converter
Korkh, Oleksandr; **Blinov, Andrei**; **Vinnikov, Dmitri**; Shevchenko, Viktor 2020 IEEE 11th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), 28 Sept.-1 Oct. 2020, Dubrovnik, Croatia 2020 / p. 615-620 https://doi.org/10.1109/PEDG48541.2020.9244465

Optimization and implementation of the proportional-resonant controller for grid-connected inverter with significant computation delay
Husev, Oleksandr; Roncero-Clemente, Carlos; **Makovenko, Elena**; **Pires Pimentel, Sergio**; **Vinnikov, Dmitri**; Martins, Joao IEEE transactions on industrial electronics 2020 / p. 1201 −1211 https://doi.org/10.1109/TIE.2019.2898616 Journal metrics at Scopus

Article at Scopus Journal metrics at WOS Article at WOS

Optimized energy scheduling of residential DC building: Case of Nordic climate
Sidorova, Aleksandra; **Blinov, Andrei**; **Ahmadiahangar, Roya**; **Vinnikov, Dmitri**; **Võsa, Karl-Villem**; **Kurnitski, Jarek** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 7 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227437

Output filter design for grid connected single phase three-level quasi-Z-source inverter [Electronic resource]
Husev, Oleksandr; **Stepenko, Serhii**; Roncero-Clemente, Carlos; **Vinnikov, Dmitri**; Romero-Cadaval, Enrique CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 46-51 : ill [CD-ROM]

Output filter for the high-voltage DC/DC converter
Müür, Margus; **Vinnikov, Dmitri** 4th International Symposium Topical Problems of Education in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 15-20, 2007 2007 / p. 118-121 : ill

Output rectifier for the high-voltage high-frequency isolated DC/DC converter
Jalakas, Tanel; **Vinnikov, Dmitri**; **Laugis, Juhan** Scientific proceedings of Riga Technical University. Serija 4, Power and electrical engineering 2007 / p. 84-95 : ill

Output rectifier for the high-voltage high-frequency isolated DC/DC converter
Roasto, Indrek; **Vinnikov, Dmitri**; Klytta, Marius Scientific proceedings of Riga Technical University. Serija 4, Power and electrical engineering 2007 / p. 75-83 : ill

Output voltage control system for a three-level neutral-point clamped quasi-Z-source inverter
Roncero-Clemente, Carlos; **Husev, Oleksandr**; Stepenko, Serhii; Romero-Cadaval, Enrique; **Vinnikov, Dmitri** Przeglad elektrotechniczny 2013 / p. 76-80 : ill

Overcoming EMI problems in the high-power high-frequency DC/DC converters - a case study
Vinnikov, Dmitri; **Laugis, Juhan** Технічна електродинаміка 2006 / 5, p. 33-37 : ill

An overview and comprehensive comparative evaluation of constant-frequency voltage buck control methods for series resonant DC–DC converters
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri**; **Bakeer, Abualkasim Ahmed Ali** IEEE Open Journal of the Industrial Electronics Society 2021 / p. 65 - 79 https://doi.org/10.1109/OJIES.2020.3048003 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

An overview of lifetime management of power electronic converters
Rahimpour, Saeed; **Tarzamni, Hadi**; **Vosoughi Kurdkandi, Naser**; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Tahami, Farzad IEEE Access 2022 / p. 109688-109711 https://doi.org/10.1109/ACCESS.2022.3214320 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Overview of single-stage isolated AC-DC topologies for interfacing DC and AC grids
Carvalho da Silva, Edivan Laercio; **Blinov, Andrei**; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE 13th International Symposium on Power Electronics for Distributed Generation Systems (PEDG) 2022 / 6 p. https://doi.org/10.1109/PEDG54999.2022.9923249

An overview of the functions of smart grids associated with virtual power plants including cybersecurity measures
Alvi, Anas Abdullah; Romero-Cadaval, Enrique; González-Romera, Eva; Hassan, Jamil; **Vinnikov, Dmitri** Technological innovation for connected cyber physical spaces : 14th IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2023, Caparica, Portugal, July 5-7, 2023 : proceedings 2023 / p. 95 - 107 https://doi.org/10.1007/978-3-031-36007-7_7 Conference Proceedings at Scopus Article at Scopus

An overview of wide-voltage range isolated DC-DC converters
Khan, Salman; **Chub, Andrii**; **Vinnikov, Dmitri** 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p https://doi.org/10.1109/RTUCON60080.2023.10413144

Overvoltages in an inverter-fed AC motor system with long cable
Vinnikov, Dmitri; **Lehtla, Tõnu** 4th International Workshop CPE 2005 : Compatibility in Power Electronics : Fifth International Research and Educational Colloquium on Electronics : 1-3 June 2005, Gdynia, Poland 2005 / p. 69-71 : ill

Overvoltages in an inverter-fed AC motor system with long cable [Electronic resource]
Vinnikov, Dmitri; **Lehtla, Tõnu** Proceedings of 4th International Workshop CPE 2005 : Compatibility in Power Electronics : Fifth International Research and Educational Colloquium on Electronics : 1-3 June 2005, Gdynia, Poland 2005 / [5] p. : ill. [CD-ROM]

P and Q control strategy for single phase Z/qZ source inverter based on d-q frame

Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Husev, Oleksandr**; **Vinnikov, Dmitri** Proceedings : 2014 IEEE 23rd International Symposium on Industrial Electronics (ISIE) : Grand Cevahir Hotel and Convention Center, Istambul, Turkey, 01-04 June, 2014 2014 / p. 2048-2053 : ill

P3R : partial power postregulated gridforming converter for prosumer DC buildings
Carvalho da Silva, Edivan Laercio; **Chub, Andrii**; **Hassanpour, Naser**; **Blinov, Andrei**; Rathore, Akshay Kumar; **Vinnikov, Dmitri** IEEE transactions on industrial electronics 2024 / 10 p https://doi.org/10.1109/TIE.2024.3423358

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

Passive modular structure of a SEPIC based DC/DC converter
Chub, Andrii; **Husev, Oleksandr**; **Vinnikov, Dmitri** 2014 IEEE International Conference on Intelligent Energy and Power Systems (IEPS) : conference proceedings : June 2-6, 2014, Kyiv, Ukraine 2014 / p. 81-85 : ill

Passive power decoupling approach for three-level single-phase impedance source inverter based on resonant and PID controllers
Makovenko, Elena; **Husev, Oleksandr**; **Zakis, Janis**; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Vinnikov, Dmitri** 2017 11th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2017) : Cadiz, Spain, 4-6 April 2017 2017 / p. 516-521 : ill https://doi.org/10.1109/CPE.2017.7915225

PCB design impact on GaN-Based converter operation
Husev, Oleksandr; **Jalakas, Tanel**; **Vinnikov, Dmitri**; **Vosoughi Kurdkandi, Naser**; Persson, Eric 2023 IEEE Applied Power Electronics Conference and Exposition (APEC), 19-23 March 2023 : proceedings 2023 / p. 640-650
https://doi.org/10.1109/APEC43580.2023.10131547 Conference proceedings at Scopus Article at Scopus Article at WOS

Performance analysis of protection methods in residential DC microgrids
Jalakas, Tanel; Banavath, Satish Naik; **Chub, Andrii**; **Roasto, Indrek**; **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-POWERENG58103.2023.10227388

Performance benchmarking of Si and GaN MOSFETs in isolated buck-boost DC-DC converter
Mashinchi Maheri, Hamed; **Vinnikov, Dmitri**; **Rahman, Showrov** 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 15-17 Nov. 2021 : conference proceedings 2021 / p. 1-6 : ill
https://doi.org/10.1109/RTUCON53541.2021.9711696

Performance evaluation of a three-phase PV power plant under unbalanced conditions with islanding detection reliability test
Alvi, Anas Abdullah; Romero-Cadaval, Enrique; Gonzalez-Romera, Eva; Vinnikov, Dmitri; Hassan, Jamil 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p
https://doi.org/10.1109/CPE-POWERENG58103.2023.10227391

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

Performance evaluation of the universal photovoltaic string converter during the operation in DC microgrid environment
Matiushkin, Oleksandr; **Vinnikov, Dmitri**; **Husev, Oleksandr** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1-6 : ill https://doi.org/10.1109/IECON48115.2021.9589473 Conference Proceedings at Scopus Article at Scopus Article at WOS

Performance improvement method for the voltage-fed qZSI with continuous input current
Vinnikov, Dmitri; **Roasto, Indrek**; Strzelecki, Ryszard; Adamowicz, Marek MELECON 2010 : the 15th IEEE Mediterranean Electrotechnical Conference : 25th-28th April 2010, Malta : book of abstracts 2010 / p. 135 https://ieeexplore.ieee.org/document/5476229

Performance improvement of PWM control methods for voltage step-down in series resonant DC–DC converters
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri** Energies 2020 / art. en13174569 ; 18 p https://doi.org/10.3390/en13174569 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Photovoltaic energy yield improvement in two-stage solar microinverters
Chub, Andrii; **Vinnikov, Dmitri**; **Stepenko, Serhii**; **Liivik, Elizaveta**; Blaabjerg, Frede Energies 2019 / art. 3774, 17 p. : ill
https://doi.org/10.3390/en12193774 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Photovoltaic energy yield improvement in two-stage solar microinverters

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

Photovoltaic microconverter with integrated sub-modular power optimizer
Maheri, Hamed Mashinchi; **Chub, Andrii**; **Vinnikov, Dmitri**; **Blinov, Andrei** IEEE 15th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2021 / p. 1-6 https://doi.org/10.1109/CPE-POWERENG50821.2021.9501179

Photovoltaic module and submodule level power electronics and control
Spagnuolo, Giovanni; Kouro, Samir; **Vinnikov, Dmitri** IEEE Transactions on Industrial Electronics 2019 / p. 3856 - 3859 https://doi.org/10.1109/TIE.2018.2883187 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Photovoltaic string converter with universal compatibility with AC and DC microgrids = Alalis- ja vahelduvvoolu mikrovõrkudega ühilduv universaalne muundur päikese-elektrijaamadele
Matiushkin, Oleksandr 2022 https://doi.org/10.23658/taltech.27/2022 https://digikogu.taltech.ee/et/Item/b818b684-924e-4fda-b414-fe8b7adba165 https://www.ester.ee/record=b5502078*est

PMSG based residential wind turbines : possibilities and challenges
Bisenieks, Lauris; **Vinnikov, Dmitri**; Galkin, Ilja Agronomy research 2013 / p. 295-306 : ill

Possibilities and limitations of liquid cooling systems for high power converters
Blinov, Andrei; **Vinnikov, Dmitri** 7th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Narva-Jõesuu, Estonia, 16.06-19.06.2009] 2009 / p. 20-25 : ill

Power converter interfaces for electrochemical energy storage systems - a review
Fernao Pires, Vitor; Romero-Cadaval, Enrique; **Vinnikov, Dmitri**; **Roasto, Indrek**; Martins, Joao Energy conversion and management 2014 / p. 453-475 : ill

Power Electronic Systems for Efficient and Sustainable Energy Supply
2019 https://www.mdpi.com/journal/energies/special_issues/power_electronic_systems_for_eses

Power electronics : laboratory works
Jalakas, Tanel; **Vodovozov, Valery**; **Vinnikov, Dmitri** 2008 http://www.ester.ee/record=b2373811*est

Power loss model and efficiency analysis of the quasi-Z-Source isolated buck-boost converter with wide input voltage and load range
Mashinchi Maheri, Hamed; **Vinnikov, Dmitri**; **Chub, Andrii**; **Sidorov, Vadim** 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2021 / 8 p. : ill https://doi.org/10.1109/RTUCON51174.2020.9316587

Practical design guidelines of qZSI based step-up DC/DC converter
Zakis, Janis; **Vinnikov, Dmitri**; **Roasto, Indrek**; **Jalakas, Tanel** Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2010 / p. 107-114 : ill
https://www.researchgate.net/publication/258448386_Practical_Design_Guidelines_of_qZSI_Based_Step-Up_DCDC_Converter

Prediction of semiconductor losses in a high-power high-voltage DC/DC converter
Jalakas, Tanel; **Vinnikov, Dmitri** 4th International Symposium Topical Problems of Education in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 15-20, 2007 2007 / p. 114-117 : ill

Predictive control based on ranking multi-objective optimization approaches for a quasi-Z source inverter
Bakeer, Abualkasim Ahmed Ali; Magdy, Gaber; **Chub, Andrii**; **Vinnikov, Dmitri** CSEE journal of power and energy systems 2021 / p. 1152-1160 : ill https://doi.org/10.17775/CSEEJPES.2020.01310 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Predictive control for isolated matrix rectifier without current distortion at sector boundary
Emiliani, Pietro; **Blinov, Andrei**; de Carne, Giovanni; Arena, Gabriele; **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-POWERENG58103.2023.10227405

Preface
Shkarlet, Serhiy; Palagin, Alexander; Morozov, Anatoliy; **Vinnikov, Dmitri**; Stoianov, Nikolai; Zhelezniak, Mark; Kazymyr, Volodymy Mathematical Modeling and Simulation of Systems : Selected Papers of 17th International Conference, MODS, November 14-16, 2022, Chernihiv, Ukraine 2023 / p. v-vi https://link.springer.com/book/10.1007/978-3-031-30251-0 Conference Proceedings at Scopus Article at Scopus

Preface

Shkarlet, Serhiy; Morozov, Anatoliy; Palagin, Alexander; **Vinnikov, Dmitri**; Stoianov, Nikolai; Zhelezniak, Mark; Kazymyr, Volodymyr Mathematical Modeling and Simulation of Systems : Selected Papers of 16th International Scientific-practical Conference, MODS, 2021 June 28–July 01, Chernihiv, Ukraine 2022 / p. ix-x https://doi.org/10.1051/mmnp/2018041 Conference Proceedings at Scopus Article at Scopus

Preface to "Industrial and Technological Applications of Power Electronics Systems"
Strzelecki, Ryszard; **Demidova, Galina**; **Vinnikov, Dmitri** Industrial and Technological Applications of Power Electronics Systems 2021 / p. ix https://doi.org/10.3390/books978-3-0365-0823-8

Proportional resonant controller tuning in three-phase four-leg VSI based on particle swarm optimization
Akhtar, Zeeshan; Zhu, Jiebei; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Yu, Lujie 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. 851-856 : ill https://doi.org/10.1109/PEMC48073.2021.9432607

Protection of bidirectional Step-Up/Down partial power converter against short circuit and open circuit faults and mode transition issues
Hassanpour, Naser; **Chub, Andrii**; **Blinov, Andrei**; **Yadav, Neelesh**; **Hasan, Sayeed**; **Vinnikov, Dmitri** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p https://doi.org/10.1109/CPE-POWERENG60842.2024.10604315

qZS-based soft-switching DC/DC converter with a series resonant LC circuit
Vinnikov, Dmitri; **Zakis, Janis**; **Liivik, Liisa**; Rankis, Ivars Энергосбережение, энергетика, энергоаудит = Energy saving, power engineering, energy audit 2013 / p. 42-50 : ill

QZS-based soft-switching DC/DC converter with a series resonant LC circuit [Electronic resource]
Vinnikov, Dmitri; **Zakis, Janis**; **Liivik, Liisa**; Rankis, Ivars Международная Научно-Техническая Конференция "Силовая Электроника и Энергоэффективность" : 23-27.IX 2013, Алушта, Крым 2013 / [3] p. : ill [CD-ROM]

QZSI DC/DC converters in input-series output-parallel connection for distributed generation [Electronic resource]
Martinez, C.; **Jalakas, Tanel**; **Vinnikov, Dmitri**; Lazaro, A.; Barrado, A. SPEEDAM 2012 : Sorrento (Italy) - June 20-22, 2012 : 21st edition of the International Symposium on Power Electronics, Electrical drives, Automation and Motion 2012 / p. 952-957 : ill [CD-ROM]

Quadratic boost A-source impedance network
Siwakoti, Yam P.; **Blaabjerg, Frede**; **Chub, Andrii**; **Vinnikov, Dmitri** ECCE 2016 : IEEE Energy Conversion Congress & Expo : September 18-22, Milwaukee, WI : proceedings 2016 / [6] p. : ill https://doi.org/10.1109/ECCE.2016.7855374

Quasi single-stage three-phase filterless converter for EV charging applications
Blinov, Andrei; **Zinchenko, Denys**; Rabkowski, Jacek; Wrona, Grzegorz; **Vinnikov, Dmitri** IEEE Open Journal of Power Electronics 2022 / p. 51-60 : ill https://doi.org/10.1109/OJPEL.2021.3134460 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Quasi-Z-source half-bridge DC-DC converter for photovoltaic applications
Vinnikov, Dmitri; **Chub, Andrii**; **Husev, Oleksandr**; **Zakis, Janis** 2015 IEEE International Conference on Industrial Technology (ICIT 2015) : Seville, Spain, 17-19 March 2015 2015 / p. 2935-2940 : ill

Quasi-Z-source inverter based bi-directional DC/DC converter : analysis of experimental results [Electronic resource]
Zakis, Janis; **Vinnikov, Dmitri**; **Roasto, Indrek**; Ribickis, Leonids CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 394-399 [CD-ROM]
https://www.researchgate.net/publication/224245116_Quasi-Z-source_inverter_based_bi-directional_DCDC_converter_Analysis_of_experimental_results

Quasi-Z-source-based isolated DC/DC converters for distributed power generation
Vinnikov, Dmitri; **Roasto, Indrek** IEEE transactions on industrial electronics 2011 / p. 192-201 : ill
https://ieeexplore.ieee.org/document/5409567

Reactive power control for bidirectional isolated high-frequency link converter
Emiliani, Pietro; Blinov, Andrei; Peftitsis, Dimosthenis; Giannakis, Andreas; **Vinnikov, Dmitri** 2022 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) 2022 / p. 372-376
https://doi.org/10.1109/SPEEDAM53979.2022.9842131

Reactive power injection capability of buck-boost inverter with unfolding circuit
Roncero-Clemente, Carlos; **Husev, Oleksandr**; **Matiushkin, Oleksandr**; **Vinnikov, Dmitri**; Blaabjerg, Frede IEEE transactions on power electronics 2022 / p. 11876-11886 https://doi.org/10.1109/TPEL.2022.3179784 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Regenerative passive snubber circuit for high-frequency link converters

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

Reliability assessment of photovoltaic Buck-Boost microconverter for Estonian climate conditions
Bakeer, Abualkasim Ahmed Ali; **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-POWERENG58103.2023.10227505

Reliability evaluation of an impedance-source PV microconverter
Shen, Yanfeng; **Liivik, Elizaveta**; Blaabjerg, Frede; **Vinnikov, Dmitri**; Wang, Huai; **Chub, Andrii** 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. 108-110 : ill http://ise.elnet.ee/record=b2950026~S2*est

Reliability evaluation of an impedance-source PV microconverter
Shen, Yanfeng; **Liivik, Elizaveta**; Blaabjerg, Frede; **Vinnikov, Dmitri**; Wang, Huai; **Chub, Andrii** 2018 IEEE Applied Power Electronics Conference and Exposition (APEC 2018), San Antonio, Texas, USA, 4-8 March 2018 2018 / p. 1104–1108 : ill https://doi.org/10.1109/APEC.2018.8341154 Conference proceedings at Scopus Article at Scopus Article at WOS

Reliability of DC-link capacitors in two-stage micro-inverters under different PV module sizes
Sangwongwanich, Ariya; Shen, Yanfeng; **Chub, Andrii**; **Liivik, Elizaveta**; **Vinnikov, Dmitri**; Wang, Huai; Blaabjerg, Frede ICPE 2019 - ECCE Asia : 10th International Conference on Power Electronics - ECCE Asia : "Green World with Power Electronics" : May 27-30, 2019 BEXCO, Busan, Korea 2019 / p. 1867-1872 : ill https://ieeexplore.ieee.org/xpl/conhome/8786807/proceeding

Reliability study of input side capacitors in impedance-source PV microconverters
Liivik, Elizaveta; **Vinnikov, Dmitri**; **Chub, Andrii**; Shen, Yanfeng IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 5026–5032 : ill https://doi.org/10.1109/IECON.2019.8927173 Conference proceedings at Scopus Article at Scopus Article at WOS

Research and development of digital control systems and algorithms for high power, high voltage isolated DC/DC converters = Võimsate kõrgepingeliste alalisvoolumuundurite arvjuhtimissüsteemide ja -algoritmide uurimine ning väljatöötamine
Roasto, Indrek 2009 https://www.ester.ee/record=b2557768*est

Research and development of high-power high-voltage DC/DC converters = Võimsate kõrgepingeliste alalispingemuundurite uurimine ja välmimine
Jalakas, Tanel 2010 https://www.ester.ee/record=b2607120*est

Research and development of voltage converter for trams
Vinnikov, Dmitri; **Lehtla, Madis**; **Joller, Jüri**; **Laugis, Juhan** Power and Electrical Engineering International Scientific Conference 2002 / ? p

Research and development of voltage converters based on 6,5 kV IGBTs
Jalakas, Tanel; **Roasto, Indrek**; **Müür, Margus**; **Vinnikov, Dmitri**; **Laugis, Juhan** International Youth Conference on Energetics IYCE-2007 : 31 May - 02 June, 2007, Budapest, Hungary : program & abstracts 2007 / p. 153-154 : ill

Research of switching properties and performance improvement methods of high-voltage IGBT based DC/DC converters = Kõrgepingelistel IGBT transistoridel põhinevate alalispingemuundurite lülitusomaduste ja jõudluse suuredamise meetodite uurimine
Blinov, Andrei 2012 http://www.ester.ee/record=b2856034*est

Research, design and implementation of auxiliary power supplies for the light rail vehicles
Vinnikov, Dmitri; **Lehtla, Tõnu** 2005 https://www.ester.ee/record=b2097496*est

Research, design and implementation of galvanically isolated impedance-source DC-DC converters = Galvaaniliselt isoleeritud impedantsallikaga alalispingemuundurite uurimine, süntees ja rakendamine
Chub, Andrii 2016 http://digi.lib.ttu.ee/i/?6209 https://www.ester.ee/record=b4601191*est

Resonant DC transformer for grid-interactive energy efficient buildings
Carvalho da Silva, Edivan Laercio; **Blinov, Andrei**; **Chub, Andrii**; Rathore, Akshay Kumar; **Vinnikov, Dmitri** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p https://doi.org/10.1109/CPE-POWERENG60842.2024.10604353

Reverse power flow control possibilities of galvanically isolated impedance-source DC-DC converters
Chub, Andrii; **Vinnikov, Dmitri**; **Liivik, Elizaveta** 2017 11th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2017) : Cadiz, Spain, 4-6 April 2017 2017 / p. 522-527 : ill https://doi.org/10.1109/CPE.2017.7915226

A review of galvanically isolated impedance-source DC-DC converters
Chub, Andrii; **Vinnikov, Dmitri**; **Blaabjerg, Frede**; Peng, Fang Zheng IEEE transactions on power electronics 2016 / p. 2808-2828 : ill https://doi.org/10.1109/TPEL.2015.2453128 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

Review of isolated matrix inverters : topologies, modulation methods and applications
Korkh, Oleksandr; **Blinov, Andrei**; **Vinnikov, Dmitri**; **Chub, Andrii** Energies 2020 / art. 2394, 30 p. : ill https://doi.org/10.3390/en13092394 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Review of possible DC-DC converter-topologies for tram's auxiliary power supply
Vinnikov, Dmitri; **Lehtla, Tõnu** EPE-PEMC 2004 : 11th International Power Electronics and Motion Control Conference : 2-4 September 2004, Riga, Latvia : proceedings. Vol. 6 of 7, Mechatronics, industrial drive sytems, power electronics and drives in transport, EMC and design of PE systems 2004 / p. 6-176 - 6-179 : ill

Selection of the duty cycle variation range and its influence on the efficiency and operability of high-power converters operating at wide input voltage swing
Vinnikov, Dmitri; **Roasto, Indrek**; **Jalakas, Tanel** 7th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Narva-Jõesuu, Estonia, 16.06-19.06.2009] 2009 / p. 26-31 : ill

Self-healing photovoltaic microconverter with zero redundancy and accurate low-cost fault detection
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE transactions on industrial electronics 2024 / p. 646-656 https://doi.org/10.1109/TIE.2023.3250836

Semiconductor power loss reduction and efficiency improvement techniques for the galvanically isolated quasi-Z-source DC-DC converters = Galvaaniliselt isoleeritud kvaasiimpedantsallikaga alalispingemuunduri pooljuhtide võimsuskao vähendamine ja kasuteguri suurendamine
Liivik, Liisa 2015 https://www.ester.ee/record=b4484169*est

Series buck-boost partial power converter based on the push-pull converter
Abdel-Rahim, Omar; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri** IECON 2022 : 48th Annual Conference of the IEEE Industrial Electronics Society : 17-20 Oct. 2022 2022 / code. 184962 https://doi.org/10.1109/IECON49645.2022.9968574 Conference Proceedings at Scopus Article at Scopus

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

Series resonant DC-DC converter with an AC-switch-based full-bridge boost rectifier
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Vinnikov, Dmitri** Annual IEEE Conference on Applied Power Electronics Conference and Exposition (APEC) 2021 / p. 1985-1990 https://doi.org/10.1109/APEC42165.2021.9487113 Conference Proceedings at Scopus Article at Scopus Article at WOS

Series resonant DC-DC converter with single-switch full-bridge boost rectifier operating at fixed switching frequency
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Vinnikov, Dmitri** 2020 IEEE 11th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), 28 Sept.-1 Oct. 2020, Dubrovnik, Croatia 2020 / p. 270-275 https://doi.org/10.1109/PEDG48541.2020.9244438

Series-parallel resonant current-source DC-DC converter with wide output voltage range
Blinov, Andrei; **Carvalho da Silva, Edivan Laercio**; **Verbytskyi, Ievgen**; **Vinnikov, Dmitri** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p https://doi.org/10.1109/CPE-POWERENG60842.2024.10604346

Series-resonant DC-DC interface converter for battery integration into DC microgrids
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri** 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 307-310 https://doi.org/10.1109/PEMC51159.2022.9962929

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
Vinnikov, Dmitri; **Liivik, Elizaveta** 2018 http://www.ester.ee/record=b4763182*est

Shade-tolerant photovoltaic microinverter with time adaptive seamless P-V curve sweep MPPT [Electronic resource]

Vinnikov, Dmitri; **Kosenko, Roman**; **Chub, Andrii**; **Liivik, Elizaveta** 19th European Conference on Power Electronics and Application : EPE'17 ECCE Europe : September 11-14, 2017, Warsaw, Poland 2017 / p. P1-P7 : ill. [USB]
https://doi.org/10.23919/EPE17ECCEEurope.2017.8099366

Sheppard-Taylor isolated high boost DC-DC converter [Electronic resource]
Chub, Andrii; Siwakoti, Yam P.; **Vinnikov, Dmitri**; Blaabjerg, Frede Thirty Second Annual IEEE Applied Power Electronics Conference and Exposition (APEC 2017) : March 26-30, 2017, Tampa, Florida 2017 / p. 1695-1699 : ill. [CD-ROM]
https://doi.org/10.1109/APEC.2017.7930927

Short-circuit fault detection and remedial in full-bridge rectifier of series resonant DC-DC converter based on inductor voltage signature
Bakeer, Abualkasim Ahmed Ali; **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/RTUCON51174.2020.9316482

SiC и GaAs диоды в устройствах силовой электроники
Blinov, Andrei; **Vinnikov, Dmitri**; **Rang, Toomas** Технічна електродинаміка : тематичний випуск : силова електрониіка та енергоефективність 2012 / с. 42-46 : ил

Simplified digital average current mode control algorithm for half- or full-bridge isolated DC/DC converters
Roasto, Indrek; **Vinnikov, Dmitri** IECON 2009 : 35th Annual Conference of the IEEE Industrial Electronics Society : Porto, Portugal, 3-5 November 2009 : preprint proceedings 2009 / p. 1744-1749 : ill https://ieeexplore.ieee.org/document/5414820/similar#similar

Simplified digital average current mode control algorithm for half- or full-bridge isolated DC/DC converters
Roasto, Indrek; **Vinnikov, Dmitri** IECON 2009 : 35th Annual Conference of the IEEE Industrial Electronics Society. ICELIE 2009 : 3rd IEEE International Conference on E-learning in Industrial Electronics : Porto, Portugal, 3-5 November 2009 : abstracts 2009 / p. 166

A simplified peak current mode control algorithm for special purpose high voltage IGBT converters
Roasto, Indrek; **Vinnikov, Dmitri**; **Lehtla, Tõnu**; **Auväärt, Aivar** BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 305-308 : ill

Simulation and evaluation of control methods for the rolling stock static auxiliary converter based on three-level NPC inverter topology [Electronic resource]
Roasto, Indrek; **Vinnikov, Dmitri**; **Vodovozov, Valery** POWERENG 2009 : 2nd International Conference on Power Engineering, Energy and Electrical Drives : 18-20 March, 2009, Lisbon, Portugal 2009 / p. 593-598 : ill. [CD-ROM]
https://ieeexplore.ieee.org/document/4915176/similar#similar

Simulation of grid connected three-level neutral-point-clamped qZS inverter using PSCAD
Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Stepenko, Serhii Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2013 / p. 14-19 : ill

Simulation study of different modulation techniques for three-level quasi-Z-source inverter
Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Husev, Oleksandr**; **Vinnikov, Dmitri** Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and The 1st Congress of World Engineers and Riga Polytechnical Institute : RTU Alumni, Paper 14 of Subsection of Power Electronic Converters and Applications 2012 / 7 p. : ill

Simulation study of different modulation techniques for three-level quasi-Z-source inverter
Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Husev, Oleksandr**; **Vinnikov, Dmitri** Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and the 1st Congress of World Engineers and Riga Polytechnical Institute/RTU Alumni : 11-12 October 2012, Riga, Latvija : [abstracts] 2012 / p. 120 : ill
https://intapi.sciendo.com/pdf/10.2478/v10314-012-0002-3

Simulation study of high step-up quasi-Z-source DC-DC converter with synchronous rectification
Liivik, Liisa; **Vinnikov, Dmitri**; **Zakis, Janis** 2014 55th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings 2014 / p. 34-37 : ill

Simulation study of nonlinear PI-controller with quasi-Z-source derived push-pull converter
Chub, Andrii; **Husev, Oleksandr**; **Vinnikov, Dmitri** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2013 / p. 26-31 : ill

Simulation study of the grid-connected single-phase impedance-sourced NPC inverter with different control methods
Roncero-Clemente, Carlos; **Husev, Oleksandr**; Romero-Cadaval, Enrique; **Zakis, Janis**; **Vinnikov, Dmitri**; Milanes-Montero, Maria Isabel 2015 IEEE International Conference on Industrial Technology (ICIT 2015) : Seville, Spain, 17-19 March 2015 2015 / p. 2949-2954 : ill

Single phase three-level neutral-point-clamped quasi-Z-source inverter
Husev, Oleksandr; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Vinnikov, Dmitri**; Stepenko, Serhii IET power electronics 2015 / p. 1-10 : ill https://doi.org/10.1049/iet-pel.2013.0904 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-phase string solar qZS-based inverter: example of multi-objective optimization design
Husev, Oleksandr; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos; **Chub, Andrii**; Romero-Cadaval, Enrique IEEE transactions on industry applications 2021 / p. 3120-3130 : ill https://doi.org/10.1109/TIA.2020.3034292 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Single-phase three-level qZ-source inverter connected to the grid with battery storage and active power decoupling function
Makovenko, Elena; **Husev, Oleksandr**; Romero-Cadaval, Enrique; **Vinnikov, Dmitri**; **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.2018.8659843

Single-phase three-level quasi-Z-source inverter with a new boost modulation technique
Husev, Oleksandr; Stepenko, Serhii; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Vinnikov, Dmitri** IECON 2012 : 38th Annual Conference of the IEEE Industrial Electronics Society : Industrial Electronics for Sustainable Development 2012 / p. 5852-5857 : ill https://doi.org/10.1109/IECON.2012.6389127 https://ieeexplore.ieee.org/document/6389127

Single-stage buck–boost inverters: a state-of-the-art survey
Azizi, Mohammadreza; **Husev, Oleksandr**; **Vinnikov, Dmitri** Energies 2022 / art. 1622 https://doi.org/10.3390/en15051622 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Single-stage series-connected isolated converters for MVAC to DC applications
Blinov, Andrei; **Chub, Andrii**; **Vinnikov, Dmitri**; Bayhan, Sertac Workshop on Smart Grid and Renewable Energy (SGRE) 2022 / 4 p https://doi.org/10.1109/SGRE53517.2022.9774185

Single-switch galvanically isolated quasi-Z-source DC-DC converter
Chub, Andrii; **Vinnikov, Dmitri** 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 582-586 : ill http://dx.doi.org/10.1109/PowerEng.2015.7266381

Single-switch galvanically isolated step-op DC-DC converter for residential photovoltaic applications [Online resource]
Vinnikov, Dmitri; **Chub, Andrii**; **Liivik, Elizaveta** Proceedings of the IECON2016 - 42nd Annual Conference of the Industrial Electronics Society : Florence (Italy), October 24-27, 2016 2016 / p. 6578-6582 : ill https://doi.org/10.1109/IECON.2016.7793776

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

6.5 kV IGBT switch realization possibilities and their feasibility study for high-power applications
Vinnikov, Dmitri; **Laugis, Juhan**; Strzelecki, Ryszard; **Egorov, Mikhail** The 4th International Scientific Conference of The Military Technical College [Korby El-Kobbah, Cairo, Egypt] : 27-29 May 2008. Proceedings of the 6th ICEENG Conference : 27-29 May, 2008 2008 / p. EE051 [CD-ROM] https://iceeng.journals.ekb.eg/article_34406.html

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 http://www.ester.ee/record=b4650094*est

Sliding mode control based on super twisting algorithm for single-stage on-board charger
Guler, Naki; Komurcugil, Hasan; Bayhan, Sertac; **Vinnikov, Dmitri**; **Blinov, Andrei** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227481

Small signal model of the buck-boost bidirectional DC-AC converter based on unfolding circuit
Matiushkin, Oleksandr; **Husev, Oleksandr**; **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 / 6 p https://doi.org/10.1109/RTUCON48111.2019.8982329

Small signal modeling of interleaved quasi-z-source inverter with active power decoupling circuit
Stepenko, Serhii; **Husev, Oleksandr**; **Pires Pimentel, Sergio**; **Makovenko, Elena**; **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.2018.8659903

Small signal modeling of interleaved quasi-z-source inverter with active power decoupling circuit
Stepenko, Serhii; **Husev, Oleksandr**; **Pires Pimentel, Sergio**; **Makovenko, Elena**; **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.2018.8659903

Snubberless boost full-bridge converters: analysis of soft switching performance and limitations
Blinov, Andrei; **Kosenko, Roman**; **Chub, Andrii**; **Vinnikov, Dmitri** International journal of circuit theory and applications 2019 / p. 1−25 : ill https://doi.org/10.1002/cta.2626 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Soft start algorithm for a droop controlled dc nanogrid
Roasto, Indrek; **Blinov, Andrei**; **Vinnikov, Dmitri** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 l. https://doi.org/10.1109/BEC56180.2022.9935608

Soft start and protection of bidirectional buck-boost partial power converter
Hassanpour, Naser; **Blinov, Andrei**; **Chub, Andrii**; **Vinnikov, Dmitri** 3rd International Conference on Smart Grid and Renewable Energy (SGRE) 2022 / p. 1-6 https://doi.org/10.1109/SGRE53517.2022.9774133

Soft switching bidirectional step-up/down partial power converter with reduced components stress
Hassanpour, Naser; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri** IEEE transactions on power electronics 2023 / p. 14166-14177 https://doi.org/10.1109/TPEL.2023.3289061 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Soft-switching capability analysis of a qZSI-based DC/DC converter
Zakis, Janis; **Vinnikov, Dmitri**; **Roasto, Indrek** BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 301-304 : ill

Soft-switching current-FED flyback converter with natural clamping for low voltage battery energy storage applications
Kosenko, Roman; **Vinnikov, Dmitri** Technological Innovation for Smart Systems : 8th IFIP WG 5.5/SOCOLNET Advanced Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2017, Costa de Caparica, Portugal, May 3–5, 2017 : proceedings 2017 / p. 429–436 http://dx.doi.org/10.1007/978-3-319-56077-9_42

Soft-switching modulation method for full-bridge DC-AC HF-link inverter
Blinov, Andrei; **Korkh, Oleksandr**; **Vinnikov, Dmitri**; Galkin, Ilja; Norrga, Staffan IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 4417-4422 : ill https://doi.org/10.1109/IECON.2019.8927186 Conference proceedings at Scopus Article at Scopus Article at WOS

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

Solving EMI problems of a high-frequency DC-DC converter
Vinnikov, Dmitri The 4th Research Symposium of Young Scientists : Actual Problems of Electrical Drives and Industry Automation : Tallinn, Estonia, May 17-21, 2003 2003 / p. 69-72 : ill

Some design consideration for the 6.5 Kv IGBT-based half-bridge DC/DC converter
Vinnikov, Dmitri The Brazilian journal of power electronics = Revista electronica de potencia 2008 / 2, p. 55-60 https://sobraep.org.br/artigo/some-design-considerations-for-the-6-5-kv-igbt-based-half-bridge-dc-dc-converter/

Some design considerations for coupled inductors for integrated buck-boost converters
Zakis, Janis; **Vinnikov, Dmitri**; **Bisenieks, Lauris** POWERENG2011 : proceedings of the 2011 International Conference on Power Engineering, Energy and Electrical Drives : Torremolinos (Málaga), Spain, May 11-13, 2011 2011 / [6] p. : ill https://ieeexplore.ieee.org/abstract/document/6036465

Some design considerations for high-power high-voltage DC/DC converter with improved power density and efficiency
Vinnikov, Dmitri The Brasilian journal of power electronics = Revista eletronica de potencia 2009 / 4, p. 297-304 https://sobraep.org.br/site/uploads/2018/06/rvol14no4p15.pdf

Some design considerations for the 6.5 kV IGBT-based half-bridge DC/DC converter
Vinnikov, Dmitri 9th Brazilian Power Electronics Conference : COBEP2007 : Blumenau, Brasil : book of abstracts 2007 / p. 966-971 https://sobraep.org.br/artigo/some-design-considerations-for-the-6-5-kv-igbt-based-half-bridge-dc-dc-converter/

Stability analysis of the quasi-Z-source DC/DC converter based on small signal model [Electronic resource]
Husev, Oleksandr; **Vinnikov, Dmitri**; **Roasto, Indrek** SPEEDAM 2012 : Sorrento (Italy) - June 20-22, 2012 : 21st edition of the International Symposium on Power Electronics, Electrical drives, Automation and Motion 2012 / p. 298-303 : ill [CD-ROM]

A standard-based software infrastructure to support weather forecasting in distributed energy systems [Electronic resource]
Oliviera-Lima, Jose A.; Delgado-Gomes, Vasco; Martins, Joao; Lima, Celson; Romero-Cadaval, Enrique; **Vinnikov, Dmitri** CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 36-39 : ill [CD-ROM]

Starting of a diesel engine by help of ultracapacitors
Boiko, Vitali; **Vinnikov, Dmitri**; **Joller, Jüri** BEC 2002 : proceedings of the 8th Biennial Baltic Electronics Conference : October 6-9, 2002, Tallinn, Estonia 2002 / p. 405-406 : ill

State of the art and development trends of smart control systems for high voltage DC/DC converters
Roasto, Indrek; **Vinnikov, Dmitri**; **Lehtla, Tõnu** 6th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : [Kuressaare, January 12-17, 2009] 2009 / p. 36-42 : ill

State-of-the-art activity recognition and prediction techniques applicable to the home energy management system
Hokmabad, Hossein Nourollahi; **Belikov, Juri**; **Husev, Oleksandr**; **Vinnikov, Dmitri** 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / art. 181231 : ill https://doi.org/10.1109/ENERGYCON53164.2022.9830154

Steady state analysis of the galvanically isolated DC/DC converter with a commutating LC filter [Electronic resource]
Zakis, Janis; **Vinnikov, Dmitri**; Rankis, Ivars 2012 IEEE International Conference on Industrial Technology : proceedings CD 2012 / p. 838-843 : ill [CD-ROM] https://ieeexplore.ieee.org/document/6210041

Steady-state analysis of qZS-derived push-pull DC/DC converter with wide input voltage regulation range [Electronic resource]
Husev, Oleksandr; **Blinov, Andrei**; **Vinnikov, Dmitri**; **Chub, Andrii** CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 320-325 : ill [CD-ROM]

Step-up current-source partial power converter for PV systems
Abdel-Rahim, Omar; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri**; **Hassanpour, Naser** IEEE 13th International Symposium on Power Electronics for Distributed Generation Systems (PEDG) 2022 / 6 l. https://doi.org/10.1109/PEDG54999.2022.9923250

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

Step-Up series resonant DC-DC converter with bidirectional-switch-based boost rectifier for wide input voltage range photovoltaic applications
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Vinnikov, Dmitri** Energies 2020 / Art. 3747 https://doi.org/10.3390/en13143747 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Step-Up series-resonant DC-DC converter with switched mode rectifier operating at fixed switching frequency
Chub, Andrii; **Bakeer, Abualkasim Ahmed Ali**; **Vinnikov, Dmitri** 2020 IEEE 11th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), 28 Sept.-1 Oct. 2020, Dubrovnik, Croatia 2020 / p. 597-601 https://doi.org/10.1109/PEDG48541.2020.9244312

Step-up/down partial power converter with enhanced MPPT efficiency around zero partiality
Yadav, Neelesh; **Chub, Andrii**; **Hassanpour, Naser**; **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/RTUCON60080.2023.10412980

Students & young professionals of the IEEE Industrial Electronics Society (IES) at the 24th IEEE International Conference on Industrial Technology 2023: It Is also a strategic priority of IES for the next decade! [Students and Young Professionals News]
Vinnikov, Dmitri IEEE industrial electronics magazine 2023 / p. 103-104 https://doi.org/10.1109/MIE.2023.3297351

Study of battery energy storage operation in droop-controlled residential DC nanogrid
Hasan, Sayeed; **Chub, Andrii**; **Vinnikov, Dmitri**; **Blinov, Andrei** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 5 p https://doi.org/10.1109/CPE-POWERENG60842.2024.10604364

Study of MOSFET post-fault operation in fault-tolerant DC-DC converters
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Vinnikov, Dmitri** 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / Code 181231, 5 p https://doi.org/10.1109/ENERGYCON53164.2022.9830216

Study of operating conditions of 3,3 kV dual IGBT modules in three-level neutral point clamped inverters
Blinov, Andrei; **Jalakas, Tanel**; **Vinnikov, Dmitri** Технічна електродинаміка 2010 / 1, p. 135-140 : ill

Study of performance improvement methods for 6.5kV IGBT based two-level half-bridge converters
Blinov, Andrei; **Vinnikov, Dmitri**; Ivakhno, Volodymyr Технічна електродинаміка 2011 / p. 56-62 : ill

Study of simple MPPT converter topologies for grid integration of photovoltaic systems
Zakis, Janis; **Vinnikov, Dmitri** Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2011 / p. 67-72 : ill
https://www.researchgate.net/publication/258547430_Study_of_Simple_MPPT_Converter_Topologies_for_Grid_Integration_of_Photovoltaic_Systems

Study on power losses of the full soft-switching current-fed DC/DC converter with Si and GaN devices
Chub, Andrii; **Rabkowski, Jacek**; **Blinov, Andrei**; **Vinnikov, Dmitri** IECON 2015 - Yokohama : 41st Annual Conference of the IEEE Industrial Electronics Society : November 9-12, 2015, Pacifico Yokohama, Yokohama, Japan 2015 / p. 13-18

Super twisting sliding mode control strategy for input series output parallel converters
Guler, Naki; Bayhan, Sertac; Fesli, Ugur; **Blinov, Andrei**; **Vinnikov, Dmitri** IEEE Access 2023 / p. 107394 - 107403
https://doi.org/10.1109/ACCESS.2023.3320178 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Supply for the auxiliary systems in the rail vehicle
Lehtla, Madis; **Vinnikov, Dmitri** Actual Problems of Electrical Drives and Industry Automation : the 3rd Research Symposium of Young Scientists : Tallinn, Estonia, May 19-26, 2001 2001 / p. 68-70 : ill

Survey of loss minimization methods in tram systems [Electronic resource]
Hõimoja, Hardi; **Vinnikov, Dmitri**; **Lehtla, Madis**; **Rosin, Argo**; **Zakis, Janis** SPEEDAM 2010 : International Symposium on Power Electronics, Electrical Drives, Automation and Motion : Pisa, Italy, 14th-16th June, 2010 : proceedings 2010 / p. 1356-1361 : [CD-ROM] https://ieeexplore.ieee.org/document/5544863

Survey of topology morphing control techniques for performance enhancement of galvanically isolated DC-DC converters
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri**; Peng, Fang Zheng IEEE Open Journal of the Industrial Electronics Society 2022 / p. 751-777 : ill https://doi.org/10.1109/OJIES.2022.3225265 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Switched inductor quasi-Z-source based back-to-back converter for variable speed wind turbines with PMSG
Bisenieks, Lauris; **Vinnikov, Dmitri**; **Ott, Silver** Elektronika ir elektrotechnika = Electronics and electrical engineering 2011 / p. 61-66 : ill https://www.researchgate.net/publication/267991247_Switched_Inductor_Quasi-Z-Source_Based_Back-to-Back_Converter_for_Variable_Speed_Wind_Turbines_with_PMSG

Switch-off behaviour of 6.5 kV IGBT modules in two-level voltage source inverter
Blinov, Andrei; **Jalakas, Tanel**; **Vinnikov, Dmitri**; **Janson, Kuno** Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2010 / p. 121-126 : ill https://www.researchgate.net/publication/258448388_Switch-Off_Behaviour_of_65_kV_IGBT_Modules_in_Two-Level_Voltage_Source_Inverter

Synchronous rectification in quasi-Z-source converters : possibilities and challenges
Liivik, Liisa; **Vinnikov, Dmitri**; **Jalakas, Tanel** 2014 IEEE International Conference on Intelligent Energy and Power Systems (IEPS) : conference proceedings : June 2-6, 2014, Kyiv, Ukraine 2014 / p. 32-35 : ill

Zero-current switching impedance-source DC-DC converter
Korkh, Oleksandr; **Blinov, Andrei**; **Chub, Andrii**; **Vinnikov, Dmitri** IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 5051-5056 https://doi.org/10.1109/IECON.2019.8927614 Conference proceedings at Scopus Article at Scopus Article at WOS

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

Tallinn University of Technology : [department of electrical drives and power electronics, faculty of power engineering]
Vinnikov, Dmitri The ECPE network : member companies and competence centres 2012 / p. 138 : ill

TalTechi aasta teadlane Dmitri Vinnikov tegutseb selle nimel, et rohepöörde saaks teha praktiliselt ja mõistlike kuludega
Vinnikov, Dmitri digi.geenius.ee 2023 TalTechi aasta teadlane Dmitri Vinnikov tegutseb selle nimel, et rohepöörde saaks teha praktiliselt ja mõistlike kuludega

TalTechi aasta teadlane Dmitri Vinnikov: „Seda eriala õppides avanevad noore inimese ees uskumatud töövõimalused!“

Alvela, Ain toostusuudised.ee 2023 TalTechi aasta teadlane Dmitri Vinnikov: „Seda eriala õppides avanevad noore inimese ees uskumatud töövõimalused!“

Teaduspreemia tehnikateaduste alal uurimuste tsükli "Uudsed alalispingemuundurid taastuvenergeetikas" eest : Dimitri Vinnikov, Tanel Jalakas, Indrek Roasto
Vinnikov, Dmitri; **Jalakas, Tanel**; **Roasto, Indrek** Eesti Vabariigi teaduspreemiad 2014 2014 / lk. 64-74 : fot., ill

Thermal management experience in GaN-based DC-DC converter
Mohseni, Parham; **Husev, Oleksandr**; **Vinnikov, Dmitri** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p https://doi.org/10.1109/CPE-POWERENG60842.2024.10604322

13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : in memoriam of professor Juhan Laugis : Pärnu, Estonia, January 14-19, 2013
2013 http://www.ester.ee/record=b2925939*est

Three-level half-bridge ZVS DC/DC converter for electrolyzer integration with renewable energy systems
Andrijanovitš, Anna; **Vinnikov, Dmitri**; **Roasto, Indrek**; **Blinov, Andrei** 2011 10th International Conference on Environment and Electrical Engineering (EEEIC), 8-11 May 2011, Rome, Italy : conference proceedings 2011 / [4 p.] : ill

Three-level neutral-point-clamped quasi-Z-source inverter with maximum power point tracking for photovoltaic systems
Roncero-Clemente, Carlos; Stepenko, Serhii; **Husev, Oleksandr**; Minambres-Marcos, Victor; Romero-Cadaval, Enrique; **Vinnikov, Dmitri** Technological innovation for the Internet of things : 4th IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems : DoCEIS 2013 : Costa de Caparica, Portugal, April 15-17, 2013 : proceedings 2013 / p. 334-342

Three-level single-phase quasi-Z source inverter with active power decoupling circuit
Makovenko, Elena; **Husev, Oleksandr**; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Vinnikov, Dmitri** 18th International Conference of Young Specialists on Micro/Nanotechnologies and Electron Devices : proceedings : Erlagol, Altai - 29 June - 3 July, 2017 2017 / p. 497-502 : ill https://doi.org/10.1109/EDM.2017.7981804

Three-level three-phase quasi-Z-source neutral-point-clamped inverter with novel modulation technique for photovoltaic application
Husev, Oleksandr; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Vinnikov, Dmitri**; **Jalakas, Tanel** Electric power systems research 2016 / p. 10-21 : ill https://doi.org/10.1016/j.epsr.2015.08.018 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Three-mode reconfigurable rectifier for DC-DC converters with wide input voltage range
Chub, Andrii; **Vinnikov, Dmitri**; Kouro, Samir; Malinowski, Mariusz IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 4429-4435 https://doi.org/10.1109/IECON.2019.8926994 Conference proceedings at Scopus Article at Scopus Article at WOS

Three-phase bidirectional isolated AC-DC matrix-converter with full soft-switching range
Carvalho da Silva, Edivan Laercio; **Blinov, Andrei**; **Emiliani, Pietro**; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE Access 2023 / p. 119270-119283 https://doi.org/10.1109/ACCESS.2023.3327224 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Three-phase four wire high-frequency link converter for residential DC grids
Emiliani, Pietro; **Blinov, Andrei**; de Carne, Giovanni; Arena, Gabriele; **Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227416

Three-phase three-level neutral-point-clamped qZ source inverter with active filtering capabilities
Roncero-Clemente, Carlos; **Husev, Oleksandr**; Romero-Cadaval, Enrique; Martins, Joao; **Vinnikov, Dmitri**; Milanes-Montero, Maria Isabel 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 216-220 : ill http://dx.doi.org/10.1109/CPE.2015.7231075

A three-phase unfolding-based PFC topology with two inductors for electric vehicles battery charging
Mohseni, Parham; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Matiushkin, Oleksandr**; **Vosoughi Kurdkandi, Naser** 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p https://doi.org/10.1109/RTUCON60080.2023.10413182

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

Title: Models of the qZ-Converters

Vinnikov, Dmitri; Strzelecki, Ryszard Przeglad elektrotechniczny 2010 / 6, p. 80-84

Topological review of quasi-switched boost inverters
Barath, Jayakumar Geetha Nataraj; Soundarrajan, Ayyasamy; Stepenko, Serhii; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Nguyen, Minh-Khai Electronics 2021 / art. 1485 https://doi.org/10.3390/electronics10121485 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Topology morphing control of low-cost PV microconverters
Mashinchi Maheri, Hamed; **Vinnikov, Dmitri**; **Chub, Andrii**; **Sidorov, Vadim** 2021 IEEE 19th International Power Electronics and Motion Control Conference (PEMC), 25-29 April 2021, Gliwice, Poland : proceedings 2021 https://doi.org/10.1109/PEMC48073.2021.9432496

Topology morphing control with soft transients for multimode series resonant DC-DC converter
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri** 2021 IEEE 22nd International Conference of Young Professionals in Electron Devices and Materials (EDM) 2021 / p. 331−336 https://doi.org/10.1109/EDM52169.2021.9507621

Topology-morphing photovoltaic microconverter with wide MPPT voltage window and post-fault operation capability
Vinnikov, Dmitri; **Chub, Andrii**; **Zinchenko, Denys**; **Sidorov, Vadim** IEEE Access 2020 / art. 9171332, p. 153941-153955 : ill https://doi.org/10.1109/ACCESS.2020.3017805 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Tracking of MPP for three-level neutral-point clamped qZ-source off-grid inverter in solar applications
Roncero-Clemente, Carlos; **Husev, Oleksandr**; Minambres-Marcos, Victor; Romero-Cadaval, Enrique; Stepenko, Serhii; **Vinnikov, Dmitri** Journal of microelectronics, electronic components and materials 2013 / p. 212-221 : ill

Traction and control of light rail vehicles
Laugis, Juhan; **Lehtla, Tõnu**; **Joller, Jüri**; **Rosin, Argo**; **Vinnikov, Dmitri**; **Lehtla, Madis** 2008 http://www.ester.ee/record=b2394449*est

Transactive energy : power electronics challenges
Martins, João F.; Romero-Cadaval, Enrique; **Vinnikov, Dmitri**; Malinowski, Mariusz IEEE Power Electronics Magazine 2022 / p. 20-32 https://doi.org/10.1109/MPEL.2022.3140981 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Transient analysis of high-voltage half-bridge inverter during freewheeling states
Blinov, Andrei; **Jalakas, Tanel**; **Vinnikov, Dmitri**; **Janson, Kuno** 9th International Symposium "Topical problems in the field of electrical and power engineering". Doctoral school of energy and geotechnology II : Pärnu, Estonia, June 14-19, 2010 2010 / p. 8-11 : ill

Transient response analyse of different voltage-fed qZS-family inverters
Ott, Silver; **Roasto, Indrek**; **Vinnikov, Dmitri**; **Teemets, Raivo** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 195-199 : ill

Trans-Z-source-like inverter with built-in DC current blocking capacitors [Electronic resource]
Adamowicz, Marek; Guzinski, Jaroslaw; Strzelecka, Natalia; **Vinnikov, Dmitri** CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 137-149 : ill. [CD-ROM] https://ieeexplore.ieee.org/document/5942221

Triple-Loop Control Configuration for Grid-Connected LCL-Filtered Inverters Based on Time-Domain Design
Elkayam, Moria Sassonker; **Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p. : ill https://doi.org/10.1109/CPE-POWERENG58103.2023.10227426

TTÜ elektriajamite ja jõuelektroonika instituut moderniseeris BLRT kraana
Vinnikov, Dmitri; **Boiko, Vitali** Mente et Manu 2005 / 5. mai, lk. 3 : fot https://www.ester.ee/record=b1242496*est

Two-stage quasi-Z-source network based step-up DC/DC converter
Vinnikov, Dmitri; **Roasto, Indrek**; Strzelecki, Ryszard; Adamowicz, Marek ISIE 2010 : IEEE International Symposium on Industrial Electronics : Bari, Italy, 4-7 July 2010 2010 / p. 1143-1148 : ill https://ieeexplore.ieee.org/document/5636562

Ultracapacitors as an innovative teaching topic in Tallinn University of Technology [Electronic resource]
Roasto, Indrek; **Vinnikov, Dmitri**; **Lehtla, Tõnu** 19th International Symposium on Power Electronics, Electrical Drives, Automation and Motion : Speedam 2008 : Ischia (Italy), June 11th-13th, 2008 : conference proceedings 2008 / p. 475-480 : ill. [CD-ROM]

Ultra-High gain modified SCLN based DC-DC converter with reduced device current stress
Sahoo, Gyana Manjari; 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 https://doi.org/10.1109/RTUCON56726.2022.9978808

Ultrawide voltage gain range microconverter for integration of silicon and thin-film photovoltaic modules in DC microgrids
Chub, Andrii; **Vinnikov, Dmitri**; **Korkh, Oleksandr**; Malinowski, Mariusz; Kouro, Samir IEEE transactions on power electronics 2021 / p. 13763-13778 https://doi.org/10.1109/TPEL.2021.3084918 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Universal galvanically isolated DC-DC converters with topology morphing control = Universaalsed topoloogiat muutva juhtimisega galvaaniliselt isoleeritud alalispingemuundurid
Sidorov, Vadim 2023 https://doi.org/10.23658/taltech.17/2023 https://digikogu.taltech.ee/et/Item/96dbe736-5976-431c-ae55-7fc2d4ead55e https://www.ester.ee/record=b5558654*est

Use of ultracapacitors modules in ICE starting system
Boiko, Vitali; **Vinnikov, Dmitri**; **Joller, Jüri** Power and Electrical Engineering International Scientific Conference 2002 / ? p

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

Utility-scale energy storage systems : converters and control
Stynski, Sebastian; Luo, Wensheng; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE industrial electronics magazine 2020 / p. 32-52 https://doi.org/10.1109/MIE.2020.3011655 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Uudsed alalispingemuundurid taastuvenergeetikas
Vinnikov, Dmitri; **Jalakas, Tanel**; **Roasto, Indrek** Teadusmõte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 216-226 : ill., fot https://www.ester.ee/record=b5208765*est

Wear-out failure analysis of an impedance-source PV microinverter based on system-level electrothermal modeling
Shen, Yanfeng; **Chub, Andrii**; Wang, Huai; **Vinnikov, Dmitri**; **Liivik, Elizaveta**; Blaabjerg, Frede IEEE transactions on industrial electronics 2019 / p. 3914-3927 https://doi.org/10.1109/TIE.2018.2831643 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Wear-out failure analysis of solar optiverter operating with 60- and 72-cell Si crystalline PV modules
Liivik, Liisa; **Chub, Andrii**; Sangwongwanich, Ariya; Shen, Yanfeng; **Vinnikov, Dmitri**; Blaabjerg, Frede IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 6134-6140 : ill https://doi.org/10.1109/IECON.2018.8592925

Versatile laboratory tools for advanced cource of power electronics
Jalakas, Tanel; **Vinnikov, Dmitri**; **Roasto, Indrek**; **Raud, Zoja**; **Egorov, Mikhail** BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 277-280 : ill

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 high step-up DC-DC vonverter with fault-tolerant operation capability
Vinnikov, Dmitri; **Chub, Andrii**; **Korkh, Oleksandr**; Kouro, Samir 2019 IEEE International Conference on Industrial Technology, ICIT 2019 : Melbourne, Australia, 13-15 February 2019 : proceedings 2019 / p. 1099-1104 : ill https://doi.org/10.1109/ICIT.2019.8755040 Conference proceedings at Scopus Article at Scopus Article at WOS

Wide input voltage range operation of the series resonant DC-DC converter with bridgeless boost rectifier
Bakeer, Abualkasim Ahmed Ali; **Chub, Andrii**; **Vinnikov, Dmitri**; **Rosin, Argo** Energies 2020 / p. 4220−4237 https://doi.org/10.3390/en13164220 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Wide output voltage range isolated buck-boost PFC converter with reconfigurable rectifier
Verbytskyi, Ievgen; **Nadeem, Mohammad Mahad**; **Blinov, Andrei**; **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-POWERENG58103.2023.10227389

Wide-range operation of high step-up DC-DC converters with multimode rectifiers

Chub, Andrii; **Vinnikov, Dmitri**; **Korkh, Oleksandr**; **Jalakas, Tanel**; **Demidova, Galina** Electronics 2021 / art. 914, 20 p. : ill https://doi.org/10.3390/electronics10080914 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Wind energy systems [Online resource]
Malinowski, Mariusz; Milczarek, Adam; **Vinnikov, Dmitri**; **Chub, Andrii** Power electronic converters and systems : frontiers and applications 2016 / p. 351-394 : ill http://dx.doi.org/10.1049/PBPO074E_ch12 http://www.ester.ee/record=b4556286*est

Wireless charging station design for electric scooters : case study analysis
Shevchenko, Viktor; Pakhaliuk, Bohdan; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Strzelecki, Ryszard Energies 2024 / art. 2472 https://doi.org/10.3390/en17112472

Voltage control tuning of a single-phase grid-Connected 3L qZS-based inverter for PV application
Pires Pimentel, Sergio; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos; **Makovenko, Elena** 2018 IEEE 38th International Conference on Electronics and Nanotechnology (ELNANO 2018) : Kyiv, Ukraine, 24-26 April 2018 2018 / p. 692–698 : ill https://doi.org/10.1109/ELNANO.2018.8477438

Voltage distortion approach for output filter design for off-grid and grid-connected PWM inverters
Husev, Oleksandr; **Chub, Andrii**; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos; **Vinnikov, Dmitri** Journal of power electronics 2015 / p. 278-287 : ill

Voltage gain extension techniques for high step-up galvanically isolated DC-DC converters
Vinnikov, Dmitri; **Chub, Andrii**; **Korkh, Oleksandr**; **Liivik, Elizaveta**; **Blinov, Andrei** 2020 IEEE International Conferenceon Industrial Technology, Buenos Aires Institute of Technology (ITBA) Buenos Aires, Argentina, 26-28 February, 2020 : proceedings 2020 / p. 1021-1027 : ill https://doi.org/10.1109/ICIT45562.2020.9067115 Conference proceedings at Scopus Article at Scopus Article at WOS

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

Анализ возможности замены автомобильной аккумуляторной батареи на ультраконденсаторы
Vinnikov, Dmitri; **Boiko, Vitali**; **Laugis, Juhan** Международная научно-техническая конференция "Состояние и перспективы развития электротехнологии" (XI Бенардосовские чтения) : Иваново, 2003 2003 / [7] с

Двухтактный квази-импедансный повышающий DC/DC преобразователь
Vinnikov, Dmitri; **Husev, Oleksandr**; **Blinov, Andrei** Технічна електродинаміка : тематичний випуск : силова електроніка та енергоефективність 2012 / с. 36-42 : ил

Использование разделенной коммутации в двухзвенных преобразователях постоянного напряжения для снижения динамических потерь силовых полупроводниковых ключей
Sokol, Jevgeni; **Blinov, Andrei**; **Vinnikov, Dmitri** Энергосбережение. Энергетика. Энергоаудит 2014 / 55-69 : ил

Исследование возможностей применения ультраконденсаторов в электросистеме автомобиля
Vinnikov, Dmitri; **Boiko, Vitali**; **Laugis, Juhan** Силовая электроника и энергоэффективность : СЭЭ'2003 : Алушта, Украина, 2003 2003 / [4] с

Классификация изолированных DC/DC квази-импедансных преобразователей
Chub, Andrii; **Husev, Oleksandr**; **Vinnikov, Dmitri** Вісник Національного Технічного Університета "ХПИ" 2013 / с. 15-21 : ил

Модернизация установки "Universalprüfmaschine Zwick 1435" на Пярнуской лыжной фабрике
Boiko, Vitali; **Vinnikov, Dmitri**; **Laugis, Juhan**; Ignatov, S. Automation and Control Technologies-2002 2002 / ? p

О нововведениях в учебном процессе в Институте электропривода и силовой электроники Таллиннского технического университета
Lehtla, Tõnu; **Laugis, Juhan**; **Vinnikov, Dmitri** Технічна електродинаміка 2005 / 2, с. 100-103

О результатах многолетного сотрудничества института электропривода и силовой электроники Таллиннского технического университета с Таллиннским трамвайно-троллейбусным объединением
Vinnikov, Dmitri; **Laugis, Juhan**; **Lehtla, Tõnu**; **Egorov, Mikhail** Материалы Международной конференции : Международное сотрудничество в образовании и науке : Санкт-Петербург, 2-6 июня 2008 года = Proceedings of the International Conference : International Education and Science Cooperation : Saint-Petersburg, June 2-6, 2008 : IESC-2008 2008 / с. 271-279 : ил

Об институте электропривода и силовой электроники
Laugis, Juhan; **Vinnikov, Dmitri**; **Lahtmets, Rain** Международная конференция "80 лет отечественной школы электропривода" 2002 / ? p

Об опыте Института электропривода и силовой электроники ТТУ в области модернизации электроподвижного

состава Таллиннского трамвайного парка
Vinnikov, Dmitri; **Boiko, Vitali**; **Lehtla, Madis**; **Rosin, Argo**; **Laugis, Juhan** Технічна електродинаміка 2004 / 3, с. 52-55 : ил

Об опыте проведения курсов повышения квалификации в институте электропривода и силовой электроники Таллиннского технического университета
Boiko, Vitali; **Vinnikov, Dmitri** International Conference Automation and Control Technologies - 2005 2005 / p. 15-17

Об экспериментальных испытаниях двухтактного квази-импедансного преобразователя постоянного напряжения с полупроводниковыми элементами на основе карбида кремния
Blinov, Andrei; **Chub, Andrii**; **Vinnikov, Dmitri**; **Husev, Oleksandr** Энергосбережение, энергетика, энергоаудит = Energy saving, power engineering, energy audit 2013 / с.51-58 : ил

Об экспериментальных испытаниях двухтактного квази-ипедансного преобразователя постоянного напряжения с полупроводниковыми элементами на основе карбида кремния [Компьют. файл]
Blinov, Andrei; **Chub, Andrii**; **Vinnikov, Dmitri**; **Husev, Oleksandr** Международная Научно-Техническая Конференция "Силовая Электроника и Энергоэффективность" : 23-27.IX 2013, Алушта, Крым 2013 / [2] с. : ил [CD-ROM]

Обратимый двухзвенный преобразователь постоянного напряжения с разделенной коммутацией и с неизменным знаком входного и выходного напряжения
Ивахно, В.; Замаруев, В.; Стысло, Б.; **Vinnikov, Dmitri**; **Chub, Andrii**; **Kosenko, Roman** Вісник Національного Технічного Університета "ХПИ" 2015 / с. 402-407 : ил

Порівняння імпедансних ланок для перетворювачів з джерелом напруги
Husev, Oleksandr; **Chub, Andrii**; **Vinnikov, Dmitri** Технічна електродинаміка 2015 / с. 25-32 : іл

Разработка и исследование статического преобразователя напряжения для трамвая
Vinnikov, Dmitri Силовая электроника и энергоэффективность : международная научно-техническая конференция (МНТК СЭЭ'2002) 2002 / ? p

Решение задачи измерения скорости в макете привода с векторным управлением
Boiko, Vitali; **Vinnikov, Dmitri**; **Laugis, Juhan** Automatika ir valdymo technologijos - 2004 = Automation and Control Technologies - 2004 : proceedings of the International Conference 2004 / p. 43-45

Состояние и тенденции развития электротранспорта в Эстонии
Laugis, Juhan; **Lehtla, Tõnu**; **Vinnikov, Dmitri**; **Boiko, Vitali** Труды III международной (XIV всероссийской) конференции по автоматизированному электроприводу : Нижний Новгород, 12-14 сентября 2001 2001 / с. 243-245

Сравнительный анализ повышающих преобразователей для интеграции фотоэлектрических панелей в сеть
Husev, Oleksandr; **Vinnikov, Dmitri**; Veligorsky, O. Энергосбережение, энергетика, энергоаудит = Energy saving, power engineering, energy audit 2013 / с. 28-34 : ил

Сравнительный анализ повышающих преобразователей для интеграции фотоэлектрических панелей в сеть [Компьют. файл]
Husev, Oleksandr; **Vinnikov, Dmitri**; Veligorsky, O. Международная Научно-Техническая Конференция "Силовая Электроника и Энергоэффективность" : 23-27.IX 2013, Алушта, Крым 2013 / [2] с. : ил [CD-ROM]

Трёхуровневый квази-импедансный инвертор с новым методом модуляции
Husev, Oleksandr; **Stepenko, Serhii**; Clemente, C.; Kadaval, E.; **Vinnikov, Dmitri** Технічна електродинаміка : тематичний випуск : силова електроніка та енергоефективність 2012 / с. 47-52 : ил

Электролиз как способ аккумулирования избыточной энергии ветроэнергетических установок
Egorov, Mikhail; **Vinnikov, Dmitri**; **Vodovozov, Valery** Технічна електродинамика 2008 / 1, с. 42-47 : ил