

A simple modular active power electronic transformer

Roasto, Indrek; Strzelecki, Ryszard Proceedings : 2014 IEEE 23rd International Symposium on Industrial Electronics (ISIE) : Grand Cevahir Hotel and Convention Center, Istanbul, Turkey, 01-04 June, 2014 / p. 1976-1980 : ill

A unity-power factor three-phase diode elements

Sakkos, Tiiu; Sarv, Vello PEDC'99 : International Workshop on Power Electronics Equipment for Power Quality Improvement : Slubice, 1999 / p. 72-85

Aasta teadlane: alalisvool aitab parandada hoone energiatõhusust 18 protsenti

Alvela, Ain postimees.ee 2023 [Aasta teadlane: alalisvool aitab parandada hoone energiatõhusust 18 protsenti](#)

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 / p. 1-6 <https://doi.org/10.23919/AEIT56783.2022.9951711>

Active learning in electric drives and power electronics

Raud, Zoja; Vodovozov, Valery 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. 63-68

Active learning power electronics : a new assessment methodology

Raud, Zoja EPE-PEMC 2010 : 14th International Power Electronics and Motion Control Conference : 6-8 September 2010, Ohrid, Republic of Macedonia 2010 / p. T14-1 - T14-5

Active learning technology in the field of electronics

Raud, Zoja 2014 https://www.ester.ee/record=b4412028*est

Address from the General Chairman

Zakis, Janis 7th International Conference-workshop Compatibility and Power Electronics : CPE 2011 : Tallinn, Estonia, June 3, 2011 : student forum 2011 / p. 3

Advanced course of power electronics : laboratory works

Jalakas, Tanel; Vodovozov, Valery; Vinnikov, Dmitri 2008 https://www.ester.ee/record=b2375135*est

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

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

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

Loschi, Hermes; Smolenski, Robert; Lezynski, Piotr; Nascimento, Douglas; **Demidova, Galina** Industrial and Technological Applications of Power Electronics Systems 2021 / p. 331-339 <https://doi.org/10.3390/en13143698>

Akadeemik Dmitri Vinnikov : jõuelektronika 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

Alternative graphs as a mathematical tool and knowledge representation for diagnosis purposes in digital systems

Ubar, Raimund-Johannes BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 1 1994 / p. 285-292: ill

An experimental study of diffusion welded contacts to p-type silicon carbide

Korolkov, Oleg Telekommunikatsioon 2002 : IX rahvusvahelise telekommunikatsioonipäeva materjalid 2002 / lk. 21-23 : ill

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 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 / p. 3619-3622

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>

Annual report 1994-1995 / Tallinn Technical University. Department of Electrical Drive and Power Electronics
Laugis, Juhan 1996

Assessment of higher harmonics influence to PMU measurement accuracy

Löper, Mari; Salumäe, Uku; Kilter, Jako 2017 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) : Torino, Italy 26-29 September 2017 : Conference Proceedings 2017 / 6 p. : ill <https://doi.org/10.1109/ISGTEurope.2017.8260271>

BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia)
Rang, Toomas; Min, Mart; Ubar, Raimund-Johannes 1994

BEC 2002 : proceedings of the 8th Biennial Baltic Electronics Conference : October 6-9, 2002, Tallinn, Estonia
Rang, Toomas 2002 http://www.ester.ee/record=b2150914*est

BEC 2004 : Baltic Electronics Conference : Post-Graduate Student Session : Tallinn University of Technology, October 3-6, 2004, Tallinn, Estonia
2004 https://www.ester.ee/record=b1982896*est

BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia
2004 http://www.ester.ee/record=b2150914*est

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
Rang, Toomas 2006 http://www.ester.ee/record=b2150914*est

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
Rang, Toomas 2008 http://www.ester.ee/record=b2150914*est

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
Rang, Toomas 2010 http://www.ester.ee/record=b2150914*est

BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia
2012 http://www.ester.ee/record=b2150914*est

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
Rang, Toomas 2014 http://www.ester.ee/record=b2150914*est

BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia
Rang, Toomas 2016 http://www.ester.ee/record=b2150914*est

Chapter 10 : Propulsion drives and control algorithms of electrical vehicles

Mohamed, Mahmoud Ibrahim Hassanin; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants Handbook of power electronics in autonomous and electric vehicles 2024 / p. 139-159 <https://doi.org/10.1016/B978-0-323-99545-0.00009-9>

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

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 study of possible implementations of the flexible power electronic interface for wide-range high step-up applications in DC microgrid

Khan, Salman; Chub, Andrii; Vinnikov, Dmitri; Kasper, Matthias; Deboy, Gerald 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604370>

Comparative study of the phase-integrated converter as universal power converter

Husev, Oleksandr; Matiushkin, Oleksandr; Vinnikov, Dmitri; Vosoughi Kurdkandi, Naser; Kouro, Samir Annual IEEE Conference on Applied Power Electronics Conference and Exposition (APEC) 2022 / p. 58-63
<https://doi.org/10.1109/APEC43599.2022.9773553> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

A comparison 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 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 time-varying phasor and dq0 dynamic models for large transmission networks

Belikov, Juri; Levron, Yoash International journal of electrical power & energy systems 2017 / p. 65-74
<https://doi.org/10.1016/j.ijepes.2017.05.017>

Concept maps in Power Electronics education [Electronic resource]

Raud, Zoja; Vodovozov, Valery; Lehtla, Tõnu CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 280-285 : ill [CD-ROM]

Condition monitoring of electrical machines and its relation to IoT

Vaimann, Toomas 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 55-56 : ill
https://www.ester.ee/record=b5183874*est

Configurable PCB to teach DC-DC converters in power electronics

Roasto, Indrek 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 19-20 : ill https://www.ester.ee/record=b5291755*est

Control of ultracapacitors energy exchange [Electronic resource]

Roasto, Indrek; Lehtla, Tõnu; Möller, Taavi; Rosin, Argo EPE-PEMC 2006 : 12th International Power Electronics and Motion Control Conference : Portorož, Slovenia, August 30 - September 1, 2006 : proceedings 2006 / p. 1401-1406 : ill. [CD-ROM]
<https://ieeexplore.ieee.org/document/4778599>

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>

CPE-POWERENG'23 toob kokku osalejad 30 riigist

toostusest.ee 2023 [CPE-POWERENG'23 toob kokku osalejad 30 riigist](#)

Curricula scheduling with educational thesaurus

Raud, Zoja; Vodovozov, Valery The 2011 World Congress on Computer Science and Information Technology WCSIT'11, 24-27 January 2011, Cairo, Egypt 2011 / [7 p.] : ill

Curriculum and study subjects in the field of electrical drives and power electronics at Tallinn Technical University

Lehtla, Tõnu Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Kuressaare, Estonia, January 19-24, 2004 2004 / p. 41-45

The DC transformer power electronic building block : powering next-generation converter design

Flores-Bahamonde, Freddy; Renaudineau, Hugues; Chub, Andrii IEEE industrial electronics magazine 2023 / p. 21-35
<https://doi.org/10.1109/MIE.2022.3147168> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Demonstration of mitigation measures and clarification of unclear grid code requirements : Deliverable D1.6 [Online resource]

Rüberg, S.; Sewdien, V.; Rueda Torres, J. L.; Kilter, Jako 2019 [Deliverable D1.6](#)

Department of Electrical Drives and Power Electronics

Voldek, Aleksander; Tiismus, Hugo; Risthein, Endel; Laugis, Juhan Research activities / Tallinn Technical University 1993 / p. 34-36 https://www.ester.ee/record=b1053754*est

Department of Electrical Power Engineering : annual report 2001

Valdma, Mati; Möller, Kalju; Raesaar, Peeter 2002 https://www.ester.ee/record=b1684735*est

Design and control for high reliability power electronics: state of the art and future trends

Alcaide, A. M.; Buticchi, Giampaolo; **Chub, Andrii; Dalessandro, L.** IEEE journal of emerging and selected topics in industrial electronics 2024 / p. 50-61 <https://doi.org/10.1109/JESTIE.2023.3287513>

Design and 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 modelling of electric drive in database environment [Electronic resource]

Vodovozov, Valery; Pettai, Elmo; Auväärt, Aivar ISIE08 : 2008 IEEE International Symposium on Industrial Electronics : 30 June - 2 July 2008, Cambridge, United Kingdom 2008 / p. 764-767 : ill. [CD-ROM] <https://ieeexplore.ieee.org/document/4676891>

Design of high frequency transformer for isolated bridge-type PFC converter

Zinchenko, Denys; Blinov, Andrei; Vinnikov, Dmitri; Ormison, 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 optimization methods of additively manufactured Switched Reluctance Motor = Kihtlisandustehnologia abil toodetud samm-mootori optimeerimise meetodid

Andriushchenko, Ekaterina 2023 <https://doi.org/10.23658/taltech.16/2023> <https://digikogu.taltech.ee/et/Item/382b9eea-7bd1-4140-b124-9f0b580e81bc> https://www.ester.ee/record=b5558664*est

Design optimization of permanent magnet clutch with Ārtap framework

Andriushchenko, Ekaterina; Kaska, Jan; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas; Rassõlkin, Anton Periodica polytechnica electrical engineering and computer science 2021 / p. 106-112 <https://doi.org/10.3311/PPee.17007> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

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>

Discontinuous space vector modulation technique for motor supply

Vodovozov, Valery; Egorov, Mikhail EUROCON 2011 : International Conference on Computer as a Tool : April 27-29, Lisbon, Portugal 2011 / [4 p.] : ill

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 laboratory concept focused on power electronics units

Poliakov, Nikolai; **Demidova, Galina; Zolov, Pavel** International Conference on Electromechanical and Power Systems (SIELMEN) 2021 / p. 387-392 <https://doi.org/10.1109/SIELMEN53755.2021.9600330>

Dmitri Vinnikov, tehnika- ja arvutiteadused [Võrguväljaanne]

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

Dual active bridge based isolation stage for power electronic transformer

Beldjajev, Viktor; Roasto, Indrek 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 / lk. 216-219 : ill

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>

Educational collaboration in the field of power electronics and electromechanics

Laugis, Juhan; Vodovozov, Valery 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 / p. 241-245

Educational thesaurus of power electronics

Raud, Zoja; Vodovozov, Valery EUROCON 2011 : International Conference on Computer as a Tool : April 27-29, Lisbon, Portugal 2011 / [4 p.] : ill

Eessõna/foreword

Laugis, Juhan Elektriamite ja jõuelektronika instituudi aastaraamat 2005 = Annual report 2005 / Department of Electrical Drives and Power Electronics 2006 / 2 p https://www.ester.ee/record=b1684735*est

Eesti teadlaste nutikad minuundurid hoogustavad energiapööret

Vinnikov, Dmitri; Chub, Andrii novaator.err.ee 2024 [Eesti teadlaste nutikad minuundurid hoogustavad energiapööret](https://www.ester.ee/record=b1684735*est)

EETELi uusliikme - TTÜ elektriamite ja jõuelektronika instituudi tutvustus

Laugis, Juhan Elektriala 2008 / 3, lk. 8-10 : ill., portr

Electric vehicle multiport fast charger based on the concept of active power electronic transformer

Jalakas, Tanel; Roasto, Indrek; Gallardo-Lozano, Javier; Romero-Cadaval, Enrique 2014 16th European Conference on Power Electronics and Applications (EPE'14-ECCE Europe) : Lappeenranta, Finland, 26-28 August 2014. Vol. 3 2014 / p. 2168-2176 : ill

Electronic engineering

Vodovozov, Valery; Jansikene, Raik 2006 http://www.ester.ee/record=b2210447*est

Electronics and semiconductor engineering : laboratory works

Jalakas, Tanel; Vodovozov, Valery; Vinnikov, Dmitri 2008 https://www.ester.ee/record=b2373748*est

Elektriamite ja jõuelektronika instituudi aastaraamat 2005 = Annual report 2005 : Department of Electrical Drives and Power Electronics

2006 https://www.ester.ee/record=b1684735*est

Elektriamite ja jõuelektronika instituudi aastaraamat 2006 = Annual report 2006 : Department of Electrical Drives and Power Electronics

2007 https://www.ester.ee/record=b1684735*est

Elektriamite ja jõuelektronika instituudi aastaraamat 2007 = Annual report 2007 : Department of Electrical Drives and Power Electronics

2008 http://www.ester.ee/record=b1684735*est

Elektriamite ja jõuelektronika instituudi aastaraamat 2008

Laugis, Juhan 2009 https://www.ester.ee/record=b1684735*est

Elektriamite ja jõuelektronika instituudi aastaraamat 2009

2010 https://www.ester.ee/record=b1684735*est

Elektriamite ja jõuelektronika instituudi aastaraamat 2010

2011 https://www.ester.ee/record=b1684735*est

Elektriamite ja jõuelektronika instituudi aastaraamat 2011 = Annual report 2011 : Department of Electrical Drives and Power Electronics

2012 http://www.ester.ee/record=b1684735*est

Elektriamite ja jõuelektronika instituudi aastaraamat 2011, [p.o. 2012] = Annual report 2012 : Department of Electrical Drives and Power Electronics

2013

Elektriamite ja jõuelektronika instituut

Loigom, Villem; Risthein, Endel Teadustegevus / TTÜ 1993 / lk. 35-36 https://www.ester.ee/record=b1053752*est

Elektriamite ja jõuelektronika instituut : aastaraamat 2001 = Department of Electrical Drives and Power Electronics : annual report : 2001

2002 http://www.ester.ee/record=b1684735*est

Elektriamite ja jõuelektroonika instituut : aastaraamat 2002 = Annual report 2002 : Department of Electrical Drives and Power Electronics

2003 http://www.ester.ee/record=b1684735*est

Elektriamite ja jõuelektroonika instituut : aastaraamat 2003 = Department of Electrical Drives and Power Electronics : annual report 2003

2004 http://www.ester.ee/record=b1684735*est

Elektriamite ja jõuelektroonika instituut : aastaraamat 2004 = Department of Electrical Drives and Power Electronics : annual report 2004

2005 https://www.ester.ee/record=b1684735*est

Elektriamite ja jõuelektroonika instituut sai rikkamaks

Reinde, Urmi Tehnikaülikool 1998 / 23. märts, lk. 2: ill https://www.ester.ee/record=b5309277*est

Elektroonika ja jõupooljuhttehnika

Vodovozov, Valery; Jansikene, Raik 2008 http://www.ester.ee/record=b2394522*est

Elektroonika ja jõupooljuhttehnika : laboratoorsete tööde juhendid

Jalakas, Tanel; Jansikene, Raik 2008 http://www.ester.ee/record=b2373860*est

Emeriidotsent Jaan Tomson 80. Dotsent Rain Lahtmets 70 : [portreefotod]

Mente et Manu 2006 / lk. 3 https://www.ester.ee/record=b1242496*est

Enhanced switched impedance inverter with tapped inductor

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

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>

EPE-PEMC 2006 Sloveenias, EPE-PEMC 2010 Eestis? : [ka TTÜ elektriamite ja jõuelektroonika instituudi osalemisest konverentsil]

Teemets, Raivo Elektriala 2006 / 5, lk. 24-25 : ill https://artiklid.elnet.ee/record=b1019675*est

Estimation of peak voltage value and its occurrence timing upon non-sinusoidal supply voltage

Daniel, Kamran; Kütt, Lauri; Iqbal, Muhammad Naveed; **Shabbir, Noman; Jarkovoi, Marek** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / p. 1-6 <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604412>

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 evaluation of a new carrier-based modulation method for a three-level T-type quasi-impedance-source inverter

Gutierrez-Escalona, Javier; Roncero-Clemente, Carlos; Barrero-Gonzalez, Fermin; **Husev, Oleksandr; Gonzalez-Romera, Eva; Milanés-Montero, Maria Isabel** IET power electronics 2022 / p. 337-348 <https://doi.org/10.1049/pel2.12234> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Feasibility study of model predictive control for grid-connected twisted buck-boost inverter

Matiushkin, Oleksandr; Husev, Oleksandr; Rodriguez, Jose; Young, Hector; **Roasto, Indrek** IEEE transactions on industrial electronics 2022 / p. 2488-2499 <https://doi.org/10.1109/TIE.2021.3068663> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Formation of Diffusion welded Al contacts to semiconductor silicon carbide

Korolkov, Oleg 2004

Forward-based DC-DC converter with eliminated leakage inductance problem

Matiushkin, Oleksandr; Husev, Oleksandr; Afshari, Hossein; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos IEEE transactions on industrial electronics 2024 <https://doi.org/10.1109/TIE.2024.3429626>

Full soft-switching bidirectional current-fed DC-DC converter

Chub, Andrii; Kosenko, Roman; Blinov, Andrei; Ivakhno, Volodymyr; Zamaruev, Volodymyr; Styslo, Bogdan 2015 56th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2015 / p. 189-194 : 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/MPPEL.2022.3196565> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hardware and software of the IGBT power converter

Lehtla, Madis Actual Problems of Electrical Drives and Industry Automation : the research symposium of young scientists : Tallinn, Estonia, May 31 - June 5, 1999 1999 / p. 67-70: ill

Harmonic emissions of power electronic devices under different transmission network operating conditions

Božicek, Ambrož; **Kilter, Jako; Sarnet, Tanel;** Papic, Igor; Blažis, Boštjan IEEE transactions on industry applications 2018 / p. 5216-5226 : ill <https://doi.org/10.1109/TIA.2018.2808478> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Harmonic/inter-harmonics detection using modified exact model order-based ESPRIT

Srivastava, Ankit Kumar; Tiwari, A.N; Singh, Sri Niwas; **Singh, Praveen Prakash** International Journal of Power Electronics 2023 / p. 218-233 <https://doi.org/10.1504/IJPELEC.2023.10053284> [Journal metrics at Scopus](#) [Article at Scopus](#)

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 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, Istanbul, Turkey, 01-04 June, 2014 2014 / p. 2024-2029 : ill

Impact of component losses on the efficiency of the bi-directional current doubler rectifier based isolation-stage

Beldjajev, Viktor; Roasto, Indrek IECON 2012 : 38th Annual Conference of the IEEE Industrial Electronics Society : Industrial Electronics for Sustainable Development 2012 / p. 5209-5215 : ill <https://ieeexplore.ieee.org/document/6389548>

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 networks : features, benefits and challenges for industrial application : keynote address

Husev, Oleksandr 29th International Workshop on Electric Drives: Advances in Power Electronics for Electric Drives (IWED) 2022 / p. 1 <https://doi.org/10.1109/IWED54598.2022.9722589>

Implementation 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 MPPT hill climbing technique for forward based DC-DC converter

Matiushkin, Oleksandr; Husev, Oleksandr; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604422>

Improved high-power-factor three-phase diode rectifiers using ripple-power re-rectification

Sakkos, Tiiu; Sarv, Vello; Järvi, Jaan 9th European Conference on Power Electronics and Applications : 27-29 August 2001, Graz, Austria 2001 / p. DS3.1-1 : ill

Improved high-power-factor three-phase diode rectifiers using ripple-power re-rectification [Electronic resource]

Sakkos, Tiiu; Sarv, Vello; Järvi, Jaan EPE 2001 : 9th European Conference on Power Electronics and Applications : 27-29 August 2001, Graz 2001 / [9] p. : ill. [CD-ROM]

Improving laboratory training in power electronics

Raud, Zoja 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. 152-155

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>

Interinstitutional activity in professional training in power electronics

Vodovozov, Valery; Vinnikov, Dmitri; Laugis, Juhan; Lehtla, Tõnu Технічна електродинаміка 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>

Investigation of electrical characteristics of SiC based complementary JBS structures

Kurel, Raido 2005 https://www.ester.ee/record=b2053292*est

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

Vodovozov, Valery; Jansikene, Raik 2008 http://www.ester.ee/record=b2394527*est

Jõuelektroonika

Joller, Jüri 1996 https://www.ester.ee/record=b1054897*est

Jõuelektroonika : laboratoorsete tööde juhendid

Jalakas, Tanel; Jansikene, Raik 2008 http://www.ester.ee/record=b2375029*est

Jõuelektroonika : magistritöö

Joller, Jüri 1996 https://www.ester.ee/record=b2688069*est

Jõuelektroonika erikursus : laboratoorsete tööde juhendid

Jalakas, Tanel 2008 http://www.ester.ee/record=b2375053*est

Jõuelektroonika ja elektrijsamid

Lehtla, Tõnu 2003 http://www.ester.ee/record=b1792327*est

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"](https://dea.digar.ee/article/ak/2022/04/02/7.1.%20J%20uelektroonika%20on%20v%20tmetehnoloogia%20energia-%20ja%20rohep%20o%20rde%20u%20lesannetes%20)

Jõuelektroonika suurfoorum Trondheimis

Lehtla, Tõnu Pingering 1997 / 25. sept., lk. 3 : ill

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 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 / p <https://doi.org/10.1109/COMPEL49091.2020.9265800>

Load flow modelling in local energy community electric power systems

Korõtko, Tarmo; Drovtar, Imre; Mutule, Anna; Kairisa, Evita; **Rosin, Argo** 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / 7 p <https://doi.org/10.1109/ENERGYCON53164.2022.9830203>

Microgrid for the Department of Electrical Drives and Power Electronics

Palamar, Andriy; Pettai, Elmo 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. 54-61

Mission profile resolution impacts on the thermal stress and reliability of power devices in PV inverters

Sangwongwanich, Ariya; Zhou, D.; **Liivik, Elizaveta**; Blaabjerg, Frede Microelectronics reliability 2018 / p. 1003-1007
<https://doi.org/10.1016/j.microrel.2018.06.094>

Model-free deep reinforcement learning-based current control for the dual-purpose dc-dc/ac power converter

Gutierrez-Escalona, Javier; Roncero-Clemente, Carlos; **Husev, Oleksandr; Matiushkin, Oleksandr**; Barrero-Gonzalez, Fermin; Gonzalez-Romera, Eva 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604305>

Model-free predictive control for improved performance and robustness of three-phase quasi Z-source inverters

Abid, Abderahmane; **Bakeer, Abualkasim Ahmed Ali**; Albalawi, Hani; Bouzidi, Mansour; Lashab, Abderezak; **Chub, Andrii**; Zaid, Sherif A. IEEE Access 2024 / p. 87850-87863 <https://doi.org/10.1109/ACCESS.2024.3417397>

Modified inductive multi-coil wireless power transfer approach based on Z-source network

Pakhaliuk, Bohdan; **Husev, Oleksandr**; Shevchenko, Viktor; Zakis, Janis; Khomenko, Maksym; Strzelecki, Ryszard IEEE journal of emerging and selected topics in power electronics 2021 / p. 4906-4917: ill <https://doi.org/10.1109/JESTPE.2020.3041565> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modular approach to training hardware design for modular teaching [Electronic resource]

Galkin, Ilja; Laugis, Juhan EPE-PEMC 2006 : 12th International Power Electronics and Motion Control Conference : Portorož, Slovenia, August 30 - September 1, 2006 : proceedings 2006 / p. 1715-1720 : ill. [CD-ROM]
<https://ieeexplore.ieee.org/document/4778652>

Multifunctional energy router for residential applications = Multifunktsionaalne energiaruuter eramutele

Najafzadeh, Mahdiyyeh 2022 <https://doi.org/10.23658/taltech.25/2022> <https://digikogu.taltech.ee/et/Item/6914b8ca-7ca5-49d1-868a-a6de9192f8b4> https://www.ester.ee/record=b5501867*est

Necessity to use the standard IEC 61850

Dmitrenko, Igor 7th International Conference-workshop Compatibility and Power Electronics : CPE 2011 : Tallinn, Estonia, June 3, 2011 : student forum 2011 / p. 34-37 : ill

40 aastat TTÜ elektriaramite ja jõuelektronika instituuti

Tomson, Jaan; Lahtmets, Rain Energia Teataja = Энерговестник 1996 / lk. 22-25, 54-56 : ill
https://www.ester.ee/record=b1072156*est

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.; **Ahmadihangar, 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>

A new single-phase flying inductor-based common grounded converter for dual-purpose application

Husev, Oleksandr; Vosoughi Kurdkandi, Naser; Marangalu, Milad Ghavipankeh; 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](#)

Numerical simulations of wideband SiC N-N heterostructure diode

Patankar, Udayan Sunil; Koel, Ants; Pardy, Tamas LAEDC 2020 : Latin American Electron Devices Conference, San José, Costa Rica, February 25-28, 2020 2020 / 4 p <https://doi.org/10.1109/LAEDC49063.2020.9073489>

Nurgakivi uuele õppehoonele : [elektriaramite ja jõuelektronika instituut]

Tehnikaülikool 1992 / 5. märts, lk. 3: ill

Optimization of a 3D-printed permanent magnet coupling using genetic algorithm and Taguchi method

Andriushchenko, Ekaterina; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas; Rassõlkin, Anton; Heidari, Hamidreza; Tiismus, Hans Electronics 2021 / art. 494, 16 p. : ill <https://doi.org/10.3390/electronics10040494> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Overview on digital twin for autonomous electrical vehicles propulsion drive system

Mohamed, Mahmoud Ibrahim Hassanin; Rassölkin, Anton; Vaimann, Toomas; Kallaste, Ants Sustainability 2022 / art. 601
<https://doi.org/10.3390/su14020601> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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, Istanbul, Turkey, 01-04 June, 2014 2014 / p. 2048-2053 : ill

Partial Power Processing and its Emerging Applications : Chapter 7

Hassanpour, Naser; Chub, Andrii; Blinov, Andrei; Kouro, Samir Power electronics for next-generation drives and energy systems, Vol. 1: converters and control for drives 2022 / p. 211-242 https://digital-library.theiet.org/content/books/10.1049/pbpo207f_ch7

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

Power electronic converters

Vodovozov, Valery; Jansikene, Raik; Risthein, Endel 2006 http://www.ester.ee/record=b2156786*est

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 : electrical energy converters

Raud, Zoja; Vodovozov, Valery 2014 https://www.ester.ee/record=b4421523*est

Power electronics : laboratory works

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

Power electronics and electrical drives

Lehtla, Tõnu 2003 http://www.ester.ee/record=b1860163*est

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>

Presentation of the European project MIGRATE

Grasset, H.; Popov, M.; Zargar, B.; **Kilter, Jako** Eight Protection, Automation and Control (PAC) World Conference : Wroclaw, Poland, 27-29 June 2017 2017 / p. THA05, [6] p

Professional thesaurus for learning electrical drives and power electronics

Raud, Zoja 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. 154-159 : ill

Professor Dmitri Vinnikov: jõuelektronikal on tähtis roll rohepöördes [Võrguväljaanne]

toostusuudised.ee 2021 ["Professor Dmitri Vinnikov: jõuelektronikal on tähtis roll rohepöördes"](https://www.ester.ee/record=b5502078*est)

Professor: energiakriisi aitab leevendada internetilaadne elektrivõrk [Võrguväljaanne]

Oidermaa, Jaan-Juhan novaator.err.ee 2022 [Professor: energiakriisi aitab leevendada internetilaadne elektrivõrk](https://www.ester.ee/record=b5502078*est)

Project-based collaborative learning of electrical engineering master students

Raud, Zoja; Vodovozov, Valery IEEE EDUCON 2010 Conference : Madrid 2010 : program book 2010 / p. 382
https://www.researchgate.net/publication/224148610_Project-based_collaborative_learning_of_electrical_engineering_master_students

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>

Rahvusvaheline konverents CPE2011 Tallinnas : [1.-3. juunini toimunud jõuelektronika ja ühilduvuse alane konverents]

Roasto, Indrek *Mente et Manu* 2011 / lk. 2 : fot https://www.ester.ee/record=b1242496*est

Rapid prototyping - speed up your power electronic design

Roasto, Indrek 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. 47-48 : ill https://www.ester.ee/record=b5183874*est

Research and development of an active learning technology for university-level education in the field of electronics and power electronics = Aktiivõppetehnoloogia uurimine ja väljatöötamine kõrghariduse õppekavale elektroonika ja jõuelektronika valdkonnas

Raud, Zoja 2012 https://www.ester.ee/record=b2781667*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 the new topologies for the isolation stage of the power electronic transformer = Jõuelektronilise trafo isolatsioonilüli uudsete topoloogiate uurimine ja arendamine

Beldjajev, Viktor 2013 http://www.ester.ee/record=b2969664*est

Research and study process in the Department of Electrical Drives and Power Electronic

Laugis, Juhan Actual Problems of Electrical Drives and Industry Automation : the research symposium of young scientists, Lohusalu, Estonia, June 1-8, 1997 1997 / p. 19-24: ill

Research and study process in the Department of Electrical Drives and Power Electronics TTU

Lehtla, Tõnu; Lahtmets, Rain Actual Problems of Electrical Drives and Industry Automation : the research symposium of young scientists : Tallinn, Estonia, May 31 - June 5, 1999 1999 / p. 9-11

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/ii/?6209> https://www.ester.ee/record=b4601191*est

SEU study of wideband heterostructure diode for particle detection

Patankar, Udayan Sunil; Koel, Ants 2021 IEEE International Conference on Consumer Electronics (ICCE) 2021 / 4 p. : ill <https://doi.org/10.1109/ICCE50685.2021.9427613> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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>

SiC и GaAs диоды в устройствах силовой электроники

Blinov, Andrei; Vinnikov, Dmitri; Rang, Toomas Технічна електродинаміка : тематичний випуск : силова електроніка та енергоефективність 2012 / с. 42-46 : ил

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 in learning power electronics

Laugis, Juhan; Lehtla, Tõnu; Vodovozov, Valery 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. 83-88

Simulation instruments to study power electronics of motor drives [Electronic resource]

Raud, Zoja; Vodovozov, Valery; Jalakas, Tanel; Laugis, Juhan 6th International Conference-Workshop Compatibility and Power Electronics : May 20-22, 2009 : CPE 2009 : conference proceedings 2009 / p. 306-310 [CD-ROM]

Simulation study of inverter-fed motor drives

Egorov, Mikhail 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. 165-168 : ill

Simulation tools to study power electronics [Electronic resource]

Raud, Zoja; Vodovozov, Valery; Lehtla, Tõnu; Pettai, Elmo EPE 2009 : 13th European Conference on Power Electronics and Applications : 8-10 September 2009, Barcelona, Spain 2009 / ? p. [CD-ROM]

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>

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](#)

Staff training for servicing special power electronic applications [Electronic resource]

Raud, Zoja; Vodovozov, Valery CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 319-324 [CD-ROM] <https://ieeexplore.ieee.org/document/5942254>

Startup sequence for a grid connected single phase voltage source inverter

Roasto, Indrek; Jalakas, Tanel; Rosin, Argo 2017 IEEE International Symposium on Industrial Electronics (ISIE) : Edinburgh International Conference Centre, Edinburgh, Scotland, United Kingdom, 19-21 June, 2017 : proceedings 2017 / p. 1787-1791 : ill <https://doi.org/10.1109/ISIE.2017.8001519>

State of the art of active power electronic transformers for smart grids

Roasto, Indrek; Romero-Cadaval, Enrique; Martins, Joao; Smolenski, Robert IECON 2012 : 38th Annual Conference of the IEEE Industrial Electronics Society : Industrial Electronics for Sustainable Development 2012 / p. 5241-5246 : ill <https://ieeexplore.ieee.org/document/6389543>

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>

Sujuvkäivitid ja sagedusmuundurid

Lehtla, Tõnu 1999 https://www.ester.ee/record=b1282859*est

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

Tallinna Tehnikaülikool. Elektriainite ja jõuelektronika instituut : [asutatud 1956]

1996

Tallinna Tehnikaülikooli elektriainite ja jõuelektronika instituudi arenguteest : [instituudi 45. aastapäeval]

Laugis, Juhan Elektriala 2001 / 4, lk. 9-11 : fot

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](#)

Teaching power electronics using object-oriented approach

Raud, Zoja 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. 51-52 https://www.ester.ee/record=b5183874*est

Technology of studying of a subject "Power electronics" at a speciality "Automatic systems"

Ruban, Olga 2nd International Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Kuressaare, Estonia, January 17-22, 2005 2005 / p. 67-72 : ill

Tehnikaülikoolis seati üles tehase mudel : [tehase tsehhi töötav mudel elektriainite ja jõuelektronika instituudis]

Äripäev 2005 / 7. det., lk. 8

Tehnoloogia ja ajamid

Lahtmets, Rain 2006 https://www.ester.ee/record=b2171348*est

Tehnoloogia ja ajamid

Lahtmets, Rain 2008 https://www.ester.ee/record=b2458261*est

The Department of Electrical Drives and Power Electronics of Tallinn Technical University

Laugis, Juhan Baltic electrical engineering review 1998 / 1, p. 6-7

The diffusion welded contacts in power electronics and electrotechnics

Korolkov, Oleg Telekommunikatsioon '98 : rahvusvahelise telekommunikatsioonipäeva konverentsi ettekannete materjalid, 15. mai 1998 1998 / lk. 84-86: ill

7th International Conference-workshop Compatibility and Power Electronics : CPE 2011 : Tallinn, Estonia, June 3, 2011 : student forum

2011 https://www.ester.ee/record=b2695380*est

A Toolbox to design inverters for automotive applications

Vodovozov, Valery; Raud, Zoja; Lehtla, Tõnu Recent Researches in Applications of Electrical and Computer Engineering : [proceedings of the AEE'12, ACE'12, CSS'12 : Vouliagmeni Beach, Athens, Greece, March 7-9, 2012] 2012 / p. 190-195 : ill https://www.researchgate.net/publication/262257028_A_toolbox_to_design_inverters_for_automotive_applications

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>

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](#)

TTÜ aasta teadlane 2016 Dmitri Vinnikov : energeetikateaduskonnas on oma olemuselt rakendusteadus

Vähi, Kersti Mente et Manu 2017 / lk. 22-25 : fot https://www.ttu.ee/public/m/mente-et-manu/MM_02_2017/index.html https://artiklid.elnet.ee/record=b2816026*est

TTÜ elektriainite 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

TTÜ jõuelektroonikute edu : [TTÜ elektriainite ja jõuelektroonika instituut sai kompetentsikeskuse tiitli : lühisõnum]

Mente et Manu 2011 / lk. 2 https://www.ester.ee/record=b1242496*est

Tudengite teadustöö säästab elektrikulu : [üliõpilaste teadustööde konkursi tehnikateaduste valdkonnas võitjate Andres Arukaevu ja Meelis Mälteri tööst]

Paikre, Eve Postimees 1998 / lk. 3 : fot (Tallinn)

Tugevvooluelektrikute ettevalmistamisest TTÜ elektriainite ja jõuelektroonika instituudis

Laugis, Juhan Elektriala 1999 / 1, lk. 26-27; 2, lk. 26-27: fot

2018 16th Biennial Baltic Electronics Conference (BEC) : TalTech University, October 8-10, 2018, Tallinn, Estonia [Online resource]

2018 <https://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8560605> https://www.ester.ee/record=b2150914*est

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

Universities collaboration in teaching power electronics [Electronic resource]

Vodovozov, Valery; Laugis, Juhan EPE 2007 : 12th European Conference on Power Electronics and Applications : 2-5 September 2007, Aalborg, Denmark 2007 / [8] p. [CD-ROM]

Using the MathCAD in the teaching process of electrical engineers

Soonpuu, Jelizaveta; Jansikene, Raik Actual Problems of Electrical Drives and Industry Automation : the research symposium of young scientists : Tallinn, Estonia, May 31 - June 5, 1999 1999 / p. 82-83: ill

Uudne laadija võimaldaks odavamalt elektriautode laadimisvõrku tihendada [Võrguväljaanne]

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

Uued doktorid : [11. sept. kaitses elektriainite ja jõuelektroonika instituudi doktorant Madis Lehtla doktoritööd : lühisõnum]

Mente et Manu 2006 / lk. 2 https://www.ester.ee/record=b1242496*est

WEB-based learning content management system of power electronics

Vodovozov, Valery; Raud, Zoja EUROMEDIA'2011 : featuring : Sixteenth Annual Scientific Conference on Web Technology, New Media Communications and Telematics Theory Methods, Tools and Applications : April 18-20, 2011, London, United Kingdom 2011 / p. 21-23

Versatile laboratory tools for advanced course 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

Virtual lab to study power electronic converters [Electronic resource]

Raud, Zoja; Vodovozov, Valery SPEEDAM 2010 : International Symposium on Power Electronics, Electrical Drives, Automation and Motion : Pisa, Italy, 14th-16th June, 2010 2010 / p. 703-708 [CD-ROM]
https://www.researchgate.net/publication/241171359_Virtual_lab_to_study_power_electronic_converters

Virtual lab to study power electronics in LabVIEW framework

Raud, Zoja; Vodovozov, Valery 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p
<https://doi.org/10.1109/PQ.2019.8818275>

Värske akadeemik Dmitri Vinnikov: jõuelektronikal on tähtis roll rohepöördes [Võrguväljaanne]

digi.geenius.ee 2021 "[Värske akadeemik Dmitri Vinnikov: jõuelektronikal on tähtis roll rohepöördes](#)"

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 развитии научно-исследовательского направления "Приборы и устройства силовой полупроводниковой электроники"

Velmre, Enn Развитие научных исследований в области технических наук в Эстонской ССР : тезисы республиканской конференции, Таллин, 15-16 октября 1986 г. 1986 / с. 136-139 https://www.ester.ee/record=b1231513*est

Об институте электропривода и силовой электроники

Laugis, Juhan; Vinnikov, Dmitri; Lahtmets, Rain Международная конференция "80 лет отечественной школы электропривода" 2002 / ? p

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

Тенденции развития силовой электроники на НПО "Электротехника" в 1990-1995 гг.

Беркович Е.И.; Мотыль А.П.; Тарс Я.А. Тезисы докладов семинара "Новые разновидности электропривода и возможности их применения" 1990 / с. 26-28

Численное моделирование мощных диодов Шоттки на ЭВМ

Rang, Toomas; Udal, Andres Известия высших учебных заведений : международный ежемесячный научно-технический журнал. Радиоэлектроника 1983 / с. 92-93 https://www.ester.ee/record=b2768571*est