

### **Analysis of various ventilation solutions for residential and non-residential buildings in Latvia and Estonia**

Zemitis, Jurgis; Borodinecs, Anatolijs; **Kalamees, Targo** Cold Climate HVAC 2018 : Sustainable buildings in cold climates : proceedings of the 9th Cold Climate HVAC conference, Kiruna, Sweden, 2018, 12-15 March 2019 / p. 51-61  
[https://doi.org/10.1007/978-3-030-00662-4\\_5](https://doi.org/10.1007/978-3-030-00662-4_5)

### **Business process efficiency in a digital economy**

**Prokopenko, Olha**; Shmorgun, Leonid; Kushniruk, Viktor International journal of management 2020 / p. 122–132 : ill  
<https://doi.org/10.17605/OSF.IO/R7C65> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Circulation centrifugal pump with variable speed drives and minimal electricity consumption**

**Vodovozov, Valery; Gevorkov, Levon; Raud, Zoja** 2017 11th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2017) : Cadiz, Spain, 4-6 April 2017 / p. 334-339 : ill  
<http://dx.doi.org/10.1109/CPE.2017.7915193>

### **Comparison of district heating supply options for different CHP configurations**

**Rušeljuk, Pavel; Dedov, Andrei; Hlebnikov, Aleksandr; Lepiksaar, Kertu; Volkova, Anna** Energies 2023 / art. 603, 14 p. : ill  
<https://doi.org/10.3390/en16020603> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Comparison of full power and partial power buck-boost DC-DC converters for residential battery energy storage applications**

**Hassanpour, Naser; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri** 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 6 | <https://doi.org/10.1109/CPE-POWERENG54966.2022.9880862>

### **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>

### **Design of rotors for synchronous reluctance motor : analytical treatment and optimization**

Orlova, Svetlana; Pugachov, Vladislav; **Rassölkin, Anton; Kallaste, Ants; Vaimann, Toomas** 2019 21st European Conference on Power Electronics and Applications (EPE '19 ECCE Europe), 3-5 Sept. 2019, Genova, Italy : proceedings 2019 / 9 p. : ill  
<https://doi.org/10.23919/EPE.2019.8914760>

### **Economic dispatch of CHP units through District Heating Network's demand-side management**

**Rušeljuk, Pavel; Lepiksaar, Kertu; Siirde, Andres; Volkova, Anna** Energies 2021 / art. 4553, 20 p. : ill  
<https://doi.org/10.3390/en14154553> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effect of double-slope modulation signals on conducted emissions and efficiency of strongly coupled magnetic resonance WPT systems**

Stepins, Deniss; Zakis, Janis; Audze, Janis; **Husev, Oleksandr**; Shevchenko, Viktor; Pakhaliuk, Bohdan 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2019 / 4 p  
<https://doi.org/10.1109/RTUCON48111.2019.8982351>

### **Effect of hybrid modulation on performance of wireless battery charger operating in CC/CV mode**

Stepins, Deniss; Kathari, N.; Zakis, Janis; **Husev, Oleksandr**; Pakhaliuk, Bohdan; Shevchenko, Viktor IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / 6 p <https://doi.org/10.1109/IECON48115.2021.9589544>

### **Efficiency and loss distribution analysis of the 3L-Active NPC qZS inverter**

Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; Fernao Pires, Vitor; **Husev, Oleksandr** 2018 IEEE 12th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2018) : Doha, Qatar, 10-12 April 2018 / p. 449-454 : ill <https://doi.org/10.1109/CPE.2018.8372560>

### **Efficiency control for adjustment of number of working pumps in multi-pump system**

**Bakman, Ilja; Gevorkov, Levon; Vodovozov, Valery** 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 / p. 396-402 : ill  
<http://dx.doi.org/10.1109/CPE.2015.7231108>

### **Efficiency map comparison of induction and synchronous reluctance motors**

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

### **The efficiency of private enforcement of public law claims in Estonia [Electronic resource]**

Saar, Indrek; Randlane, Kerly; Silberg, Uno; **Güldenkov, Maret**; Elling, Tõnis Estonian discussions on economic policy : articles = Estnische Gespräche über Wirtschaftspolitik : Beiträge = Eesti majanduspoliitilised väitlused : artiklid. 1 2016 / p. 145-165 : ill. [CD-ROM] <https://doi.org/10.1515/teep.v24i1.12989>

### **Efficient energy recovery from textile waste and biomass mixture**

Kramens, Janis; Vigants, Edgars; Kanukuntla, Sai-Pavan; **Goljandin, Dmitri** Engineering for Rural Development ; vol. 22 2023 / p. 817 - 825 <https://doi.org/10.22616/ERDev.2023.22.TF161> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **eGovernment and governance : the Danish-Japanese models and timelines compared**

**Meyerhoff Nielsen, Morten** CeDEM Asia 2016 : proceedings of the International Conference for E-Democracy and Open Government : Asia 2016, 7-9 December 2016, Daegu [i.e. Daegu], Republic of Korea 2017 / p. 53-66 : ill [http://www.donau-uni.ac.at/imperia/md/content/departement/gpa/zeg/bilder/cedem\\_asia/proceedings\\_cedem\\_asia\\_2016.pdf](http://www.donau-uni.ac.at/imperia/md/content/departement/gpa/zeg/bilder/cedem_asia/proceedings_cedem_asia_2016.pdf)

### **Enhancement of the e-invoicing systems by increasing the efficiency of workflows via disruptive technologies**

**Gunaratne, Hiruni; Pappel, Ingrid** Electronic Governance and Open Society: Challenges in Eurasia : 7th International Conference, EGOS 2020, St. Petersburg, Russia, November 18-19, 2020 : proceedings 2020 / p. 60-74 [https://doi.org/10.1007/978-3-030-67238-6\\_5](https://doi.org/10.1007/978-3-030-67238-6_5) [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **Evaluation of losses in three-level neutral-point-clamped and T-type quasi-Z-source inverters with modified carrier based modulation method**

Ruiz-Cortes, M.; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos; Gonzalez-Romera, Eva; **Husev, Oleksandr** 2017 11th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2017) : Cadiz, Spain, 4-6 April 2017 2017 / p. 638-643 : ill <https://doi.org/10.1109/CPE.2017.7915247>

### **Experimental comparison of two-level full-SiC and three-level Si-SiC quasi-Z-source inverters for PV applications**

**Stepenko, Serhii; Husev, Oleksandr; Vinnikov, Dmitri; Roncero-Clemente, Carlos; Pires Pimentel, Sergio; Santasheva, Elena** Energies 2019 / 2509 ; 17 p. : ill <https://doi.org/10.3390/en12132509> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Experimental comparison of two-level full-SiC and three-level Si-SiC quasi-Z-source inverters for PV applications**

**Stepenko, Serhii; Husev, Oleksandr; Vinnikov, Dmitri; Roncero-Clemente, Carlos; Pimentel, Sergio Pires; Santasheva, Elena** Emerging converter topologies and control for grid connected photovoltaic systems 2021 / P. 121-137 : ill <https://doi.org/10.3390/books978-3-03943-910-2>

### **Experimental 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 results of parallel active filter implementation in nonideal power grid**

**Husev, Oleksandr; Blinov, Andrei; Vinnikov, Dmitri** Technological Innovation 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](https://link.springer.com/chapter/10.1007/978-3-642-28255-3_32)

### **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>

### **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 <https://doi.org/10.1109/IECON.2013.6700115> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Healthcare institution efficiency : meta-analysis and case study**

**Salmistu, Sirle; Demikhov, Olexii; Demikhova, Nadiia; Taraniuk, Karina; Sochacka, Marina; Letunovska, Nataliia** Health economics and management review 2024 / p. 90-105 <https://doi.org/10.61093/hem.2024.1-07>

### **High-performance buck-boost partial power quasi-Z-source series resonance converter**

**Abdelrahim Abdelghafour, Omar Mohamed; Chub, Andrii; Mashinchi Maheri, Hamed; Blinov, Andrei; Vinnikov, Dmitri** IEEE Access 2022 / p. 13017-130189 <https://doi.org/10.1109/ACCESS.2022.3225751> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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>

### **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

**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](#)

**The influence of solar energy on the development of the mining industry in the republic of Cuba**

Shklyarskiy, Yaroslav E.; Guerra, Dias Daniel; Iakovleva, Emiliia V.; **Rassõlkin, Anton** Journal of Mining Institute 2021 / p. 427 - 440 <https://doi.org/10.31897/PMI.2021.3.12> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Library employees' attitudes towards the measurement and appraisal of their work performance : study in Estonian university libraries**

**Kont, Kate-Riin; Jantson, Signe** Library management 2013 / p. 521-537 : ill <https://doi.org/10.1108/LM-08-2012-0051> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Life cycle analysis of electrical motor-drive system based on electrical machine type**

**Rassõlkin, Anton; Belahcen, Anouar; Kallaste, Ants; Vaimann, Toomas; Heidari, Hamidreza; Asad, Bilal** Proceedings of the Estonian Academy of Sciences 2020 / p. 162–177 : ill <https://doi.org/10.3176/proc.2020.2.07> [journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Local governments' efficiency and educational results : empirical evidence from Italian primary schools**

**Ferraro, Simona;** Agasisti, Tommaso; Porcelli, Francesco; Soncin, Mara Applied economics 2021 / p. 4017-4039 : ill <https://doi.org/10.1080/00036846.2021.1896672> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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>

**Optimization of method of adjustment of productivity of multi-pump system containing directly connected motors**

**Bakman, Ilja; Gevorkov, Levon; Vodovozov, Valery** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 209-214 : ill

**Optimization of pump efficiencies with different pumps characteristics working in parallel mode**

Koor, Margus; **Vassiljev, Anatoli; Koppel, Tiit** Advances in engineering software 2016 / p. 69-76 : ill <https://doi.org/10.1016/j.advengsoft.2015.10.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimization of pump efficiency in a water distribution system**

**Koor, Margus; Vassiljev, Anatoli; Koppel, Tiit** Proceedings of the Ninth International Conference on Engineering Computational Technology 2014 / Paper 91, p. 1-10 : ill <https://iwaponline.com/ws/article/23/3/1094/93912/Optimization-of-the-operation-of-water-Conference-proceedings> [at Scopus](#) [Article at Scopus](#)

**Origin and definition of the category of economic security of enterprise [Online resource]**

Ianioglo, Alina; **Põlajeva, Tatjana** 9th International Scientific Conference "Business and Management 2016" : May 12-13, 2016, Vilnius, Lithuania 2016 / p. 1-8 : ill <http://dx.doi.org/10.3846/bm.2016.46>

**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>

**Photoelectrochemical deposition of PPY onto hydrogenated A-Si for optoelectronic applications**

**Dosenovicova, Denisa; Maricheva, Jelena;** Neumüller, Alex; Sergeev, Oleg; **Volobujeva, Olga;** Nasibulin, Albert; **Kois, Julia; Öpik, Andres; Bereznev, Sergei** Open Readings 2017 : 60th International Conference for Students of Physics and Natural Sciences, March 14-17, 2017, Vilnius, Lithuania : programme and abstracts 2017 / p. 241 [http://www.openreadings.eu/wp-content/uploads/2017/03/OR2017\\_abstracts\\_book.pdf](http://www.openreadings.eu/wp-content/uploads/2017/03/OR2017_abstracts_book.pdf)

**Power optimized PV microinstallation in the field condition tests**

**Sibinski, Maciej;** Rogowski, Szymon 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 5 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604366>

**Public procurement in age of AI: challenges and opportunities**

Iders-Bankovs, M.; Politika, V.; Pundure, J.; **Järvis, Marina;** Ziemelis, M. Engineering for rural development 2025 / p. 968-975 <https://doi.org/10.22616/ERDev.2025.24.TF198> <https://www.iitf.lbtu.lv/conference/index.php?topicID=8>

### **Role of inventory and assets in shareholder value creation**

Hilmola, Olli-Pekka Kristian Expert systems with applications: X 2020 / art. 100027, 7 p <https://doi.org/10.1016/j.eswax.2020.100027>

### **Selective photoelectrochemical deposition of polypyrrole onto hydrogenated a-Si for optoelectronic applications**

Dosenovicova, Denisa; Maricheva, Jelena; Neumüller, Alex; Sergeev, Oleg; Volobujeva, Olga; Nasibulin, Albert; Kois, Julia; Öpik, Andres; Bereznev, Sergei Materials science in semiconductor processing 2017 / p. 1-5 : ill

<https://doi.org/10.1016/j.mssp.2017.05.028> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Series buck-boost partial power converter based on the push-pull converter**

Abdelrahim Abdelghafour, Omar Mohamed; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri IECON 2022 : 48th Annual Conference of the IEEE Industrial Electronics Society : 17-20 Oct. 2022 / code. 184962

<https://doi.org/10.1109/IECON49645.2022.9968574> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **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>

### **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>

### **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](#)

### **Social policies in Western Europe compared with USA. Examples for Central and East Europe social development**

Ramiro Troitino, David Journal of legal and economic issues of Central Europe 2014 / p. 2-8

### **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](#)

### **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

### **The possibilities to improve local electrical power grid : case of TUT campus [Electronic resource]**

Astapov, Victor; Palu, Ivo 2016 17th International Scientific Conference on Electric Power Engineering (EPE) : proceedings 2016 / [5] p. : ill. [USB] <https://doi.org/10.1109/EPE.2016.7521793>

### **Three-level half-bridge ZVS DC/DC converter for electrolyzer integration with renewable energy systems**

Andrijanovič, 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

### **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 Conference on 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](#)