

### **AC linear induction motor based positioning drive**

**Jansikene, Raik; Liivik, Liisa; Tomson, Jaan** Scientific proceedings of Riga Technical University. 4. [series], Power and electrical engineering 2003 / p. 41-45

### **Analysis of buck mode realization possibilities in quasi-Z-source DC-DC converters with voltage doubler rectifier**

**Zakis, Janis; Rankis, Ivars; Liivik, Liisa; Chub, Andrii** 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 570-575 : ill  
<http://dx.doi.org/10.1109/PowerEng.2015.7266379>

### **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

### **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](#)

### **Comparative analysis of semiconductor power losses of galvanically isolated quasi-Z-source and full-bridge boost DC-DC converters**

**Kosenko, Roman; Liivik, Liisa; Chub, Andrii; Velihorskyi, Oleksandr** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2015 / p. 5-12 : ill <https://doi.org/10.1515/ecce-2015-0001>

### **Contemporary teaching of electrical drives**

**Liivik, Liisa** Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Kuressaare, Estonia, January 19-24, 2004 2004 / p. 48-50 : 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

### **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>

### **Doctoral School of Energy- and Geotechnology**

**Liivik, Liisa** 2nd International Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Kuressaare, Estonia, January 17-22, 2005 2005 / p. 55-57

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

2002 [http://www.ester.ee/record=b1684735\\*est](http://www.ester.ee/record=b1684735*est)

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

2003 [http://www.ester.ee/record=b1684735\\*est](http://www.ester.ee/record=b1684735*est)

### **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>

### **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  
<https://doi.org/10.6113/JPE.2015.15.2.299> [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](#)

### **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

### **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

### **A library of samples for testing variable load electric drives**

**Liivik, Liisa; Vodovozov, Valery; Rassõlkin, Anton** Digest book and electronic proceedings : 54th International Scientific Conference of Riga Technical University : Section of Power and Electrical Engineering 2013 / p. 12.1-12.6 : ill

### **Loss reduction method for the isolated qZS-based DC/DC converter**

**Zakis, Janis; Rankis, Ivars; Liivik, Liisa** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2013 / p. 13-18 : ill

### **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](#)

### **Numerical calculations of electrotechnics**

**Liivik, Liisa; Jansikene, Raik** The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 229-230 : ill

### **Numerical calculations of engineering**

**Liivik, Liisa; Jansikene, Raik** Actual Problems of Electrical Drives and Industry Automation : the 3rd Research Symposium of Young Scientists : Tallinn, Estonia, May 19-26, 2001 2001 / p. 78-80 : ill

### **Preheating system model of molten metal tubing for double motor MHD-drive**

**Jansikene, Raik; Liivik, Liisa** The 4th Research Symposium of Young Scientist : Actual Problems of Electrical Drives and Industry Automation : Tallinn, Estonia, May 17-21, 2003 2003 / p. 131-134 : ill

### **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]

### **Raalarvutused elektrotehnikas**

**Liivik, Liisa** 2001 [https://www.ester.ee/record=b1526277\\*est](https://www.ester.ee/record=b1526277*est)

### **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](https://www.ester.ee/record=b4484169*est)

### **Simulation of the control system of AC linear positioning drive**

**Liivik, Liisa; Jansikene, Raik** BEC 2002 : proceedings of the 8th Biennial Baltic Electronics Conference : October 6-9, 2002, Tallinn, Estonia 2002 / p. 77-78 : ill

### **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

### **Starting processes of experimental frequency controlled electrical drive**

**Jansikene, Raik; Liivik, Liisa** BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 325-326 : ill

### **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 quasi-Z-source DC/DC converter with a series resonant circuit**

**Liivik, Liisa** 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 / p. 135-140 : ill

### **Topical problems of teaching of electrical drives**

**Liivik, Liisa; Jansikene, Raik; Lehtla, Tõnu** EPE-PEMC 2004 : 11th International Power Electronics and Motion Control Conference : 2-4 September 2004, Riga, Latvia : proceedings. Vol. 4 of 7, Motion control, adjustable speed drives and education of electrical engineering 2004 / p. 4-502 - 4-506 : ill

### **Use of interactive modelling in the field of energy saving**

**Liivik, Liisa; Jansikene, Raik; Lehtla, Tõnu** 3rd International Scientific Workshop "Compatibility in Power Electronics" (CPE 2003) : Gdansk-Zielona Gora, Poland, 28-30 May, 2003 2003 / p. 64-66

### **Use of interactive software for energy saving motor selection**

**Liivik, Liisa; Jansikene, Raik** Scientific proceedings of Riga Technical University. 4. [series], Power and electrical engineering 2003 / p. 65-70 : ill

### **Variable speed linear induction motor**

**Jansikene, Raik; Liivik, Liisa** Power and Electrical Engineering International Scientific Conference 2002 / ? p

### **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>