

5. Seznam vědeckých, odborných nebo uměleckých prací v členění odpovídajícím tabulce kvantifikovaných kritérií ČVUT

Jiří Jakovenko

Seznam publikací je vytvořen k 15.10.2012

V seznamu je 7 x článek v impaktovaném periodiku (6 x za posledních 5 let), kde jsem 2x uveden jako hlavní autor; 30 publikací je registrováno ve WoS.

Článek v mezinárodním impaktovaném periodiku – WoS

- [1] Jakovenko, J. - Formánek, J. - Janíček, V. - Husák, M. - Werkhoven, R.: High Power Solid State Retrofit Lamp Thermal Characterization and Modelling. *Radioengineering*. 2012, vol. 1, no. 21, p. 231-238. ISSN 1210-2512.
- [2] Perpina, X - Werkhoven, R. - Jakovenko, J. - Formánek, J. - Vellvehi, M. - et al.: Design for reliability of solid state lighting systems. *Microelectronics Reliability*. 2012, vol. 9-10, no. 52, p. 2294-2300. ISSN 0026-2714
- [3] Janíček, V. - Husák, M. - Formánek, J. - Jakovenko, J.: Design and Fabrication of 3D Electrostatic Energy Harvester. *Radioengineering*. 2012, vol. 21, no. 1, p. 231-238. ISSN 1210-2512
- [4] Lalinský, T. - Držík, M. - Vanko, G. - Vallo, M. - Kutiš, V. - Bruncko, J.- Haščík, Š.- Jakovenko, J.- Husák, M.: Piezoelectric response of AlGaN/GaN-based circular-HEMT structures. *Microelectronic Engineering*. 2011, vol. 88, no. 8, p. 2424-2426. ISSN 0167-9317
- [5] Lalinsky, T. - Vanko, G. - Vallo, M. - Držík, M. - Brunco, J. - Jakovenko, J.- Kutiš, V.- Rýger, I.- Haščík, S.- Husák, M.: Impact of ZnO gate interfacial layer on piezoelectric response of AlGaN/GaN C-HEMT based ring gate capacitor. *Sensors and Actuators*. 2011, vol. 2011, no. 172, p. 386-391. ISSN 0924-4247
- [6] Lalinsky, T. - Držík, M. - Jakovenko, J. - Vanko, G. - Mozolova, Z. - Haščík, S. - Chlpík, J. - Hotový, I. - Řeháček, V. - Kostič, I. - Matay, L. - Husák, M.: GaAs based micromachined thermal converter for gas sensors. *Sensors and Actuators*. 2008, vol. 2008, no. A142/1, p. 147-152. ISSN 0924-424
- [7] Jakovenko, J. - Husák, M. - Lalinský, T.: Design and simulation of micromechanical thermal converter for RF power sensor microsystem . *Microelectronics Reliability*. 2004, vol. 44, no. 1, p. 141-148. ISSN 0026-2714.

Kapitola v knize

- [1] Lalinsky, T.L. - Drzik, M.D. - Jakovenko, J. - Husák, M.: GaAs Thermally Based MEMS Devices - Fabrication Techniques, Characterization and Modeling. In MEMS/NEMS Handbook - Techniques and Applications. New York: Springer, 2006, vol. 2, p. 49-110. ISBN 0-387-24520-0.

Odborný článek v ostatních časopisech s povinným recenzním řízením

- [1] Jakovenko, J. - Husák, M. - Lalinsky, T.L. - Drzik, M.D.: Micromechanical GaAs Hot Plates for Gas Sensors. *Sensors and Transducers* [online]. 2007, vol. 2007, no. 10, p. 84-92. Internet: <http://www.sensorsportal.com>. ISSN 1726-5479.
- [2] Jakovenko, J. - Husák, M. - Lalinsky, T.L.: Design and Characterization of MEMS Thermal Converter. *Sensors and Transducers* [online]. 2007, vol. 2007, no. 10, p. 101-110. Internet: <http://www.sensorsportal.com>. ISSN 1726-5479.
- [3] Husák, M. - Bouřa, A. - Jakovenko, J. - Kulha, P. - Janíček, V.: Temperature CMOS Transducer. *WSEAS Transactions on Electronics*. 2006, vol. 4, no. 3, p. 188-191. ISSN 1109-9445.
- [4] Jakovenko, J. - Husák, M.: Characterization of MEMS sensor for RF Transmitted Power Measurement. *WSEAS Transactions on Electronics*. 2006, vol. 3, no. 4, p. 156-162. ISSN 1109-9445.
- [5] Husák, M. - Jakovenko, J. - Bouřa, A. - Kulha, P.: Design of MEMS and Microsystems - Models and Simulation. *WSEAS Transactions on Systems*. 2005, vol. 4, no. 5, p. 85-93. ISSN 1109-2777.
- [6] Husák, M. - Jakovenko, J. - Novák, J. - Suchánek, P.: Flow Measure Using of Anemometric Sensor Principle and Oscillator Probe Fluidic. *WSEAS Transactions on Systems*. 2005, vol. 4, no. 7, p. 988-995. ISSN 1109-2777.
- [7] Husák, M. - Jakovenko, J.: Systems of Models for MEMS Design and Realization. *WSEAS Transactions on Systems*. 2005, vol. 4, no. 3, p. 175-184. ISSN 1109-2777.
- [8] Jakovenko, J. - Husák, M.: Micromechanical Thermal Converters Compatible with HEMT Technology. *WSEAS Transactions on Electronics*. 2005, vol. 2005, no. 3, p. 85-93. ISSN 1109-9445.
- [9] Husák, M. - Jakovenko, J. - Kulha, P. - Novák, J. - Janíček, V.: The Design of Anemometric Sensor System for Measurement of Wind Velocity and Direction with Integrated Measure Probe. *WSEAS Transactions on Systems*. 2004, vol. 3, no. 8, p. 2759-2764. ISSN 1109-2777.
- [10] Jakovenko, J. - Husák, M. - Lalinsky, T.: Thermally Isolated MEMS Thermo Converter for RF Power Sensor. *WSEAS Transactions on Systems*. 2004, vol. 3, no. 8, p. 2716-2720. ISSN 1109-2777.
- [11] Husák, M. - Kulha, P. - Jakovenko, J. - Výborný, Z.: Mechanical, Thermal and Electrical Behaviour of Si Strain Gauge. *Computational Engineering Science*. 2003, vol. 4, no. 3, p. 703-706. ISSN 1465-8763.
- [12] Lalinský, T. - Krnáč, M. - Haščík, Š. - Mozolová, Ž. - Matay, L. Jakovenko, J. – Husak, M.: Micromechanical Thermal Converter Device Based on Polyimide-Fixed Island Structure. *Computational Engineering Science*. 2003, vol. 4, no. 3, p. 543-546. ISSN 1465-8763

Příspěvky ve sbornících mezinárodních konferencí

- [1] Jakovenko, J. - Lalinský, L.T. - Držík, M.D. - Ivanova, M.I. - Vanko, G.V. - et al.: GaN, GaAs and Silicon based Micromechanical Free Standing Hot Plates for Gas Sensors. In Eurosensors XXIII: Sensors, Actuators and Micro/Nanosystems [CD-ROM]. Lausanne: Elsevier Science, 2009, ISSN 1876-6196
- [2] Husák, M. - Jakovenko, J.: Microsystems, Microsensors and Microactuators: Research and Education. In 2009 International Conference on Microelectronic Systems Education [CD-ROM]. New York: IEEE Computer Society Press, 2009, vol. ANO, p. 1-4. ISBN 978-1-4244-4406-9
- [3] Kubař, M. - Šubrt, O. - Martinek, P. - Jakovenko, J.: Experience in Virtual Testing of RSD Cyclic A/D converters. In Proc. of 12th IEEE Design and Diagnostics of Electronic Circuits and Systems Workshop 2009 (DDECS'09). Los Alamitos: IEEE Computer Society Press, 2009, p. 178-181. ISBN 978-1-4244-3339-1
- [4] Šubrt, O. - Kubař, M. - Martinek, P. - Jakovenko, J.: VIRTUAL TESTING METHOD FOR STATIC ADC NON-LINEARITY - RSD CYCLIC A/D CONVERTER CASE. In XIX IMEKO World Congress 2009 - Fundamental and Applied Metrology [CD-ROM]. Lisbon: Instituto Superior Técnico/Instituto de Telecomunicações Portugal, 2009, ISBN 978-963-88410-0-1
- [5] Husák, M. - Jakovenko, J.: MEMS and NEMS research for education. In Nanotech 2008 Vol.1. Boston: Nano Science and Technology Institute, 2008, vol. 1, p. 1057-1060. ISBN 978-1-4200-8503-7
- [6] Husák, M. - Jakovenko, J. - Stanislav, S.L.: Pressure sensor data processing for vertical velocity measurement. In Nanotech 2008 Vol.3. Boston: Nano Science and Technology Institute, 2008, vol. 3, p. 178-181. ISBN 978-1-4200-8505-1
- [7] Husák, M. - Jakovenko, J.: Solution of Vertical Velocity Measurement Using Pressure Sensor. In WMSCI/IMSCI/IMETI 2008 Proceedings [CD-ROM]. Orlando: International Institute of Informatics and Systemics (IIIS), 2008, vol. 1, p. 1-5. ISBN 978-1-934272-49-7
- [8] Kubař, M. - Jakovenko, J.: Design of the state machine for A/D converter. In ASDAM 2008 Conference Proceedings. Bratislava: Slovak University of Technology, 2008, vol. 1, p. 171-174. ISBN 978-1-4244-2325-5
- [9] Husák, M. - Jakovenko, J. - Vítěk, T.: Temperature Wireless Sensor Network. In ASDAM 2008 Conference Proceedings. Bratislava: Slovak University of Technology, 2008, vol. 1, p. 131-134. ISBN 978-1-4244-2325-5
- [10] Jakovenko, J. - Formánek, J. - Perpina, X. - Werkhoven, R. - Kunen, J. - et al.: Thermo-mechanical evaluation and life time simulation of high power LED lamp boards. In EuroSimE 2012 - Proceedings of the conference www.eurosime.org. Porto: IEEE, 2012, vol. 1, p. 1-4. ISBN 978-1-4673-1511-1.
- [11] Brinkfeldt, K. - Formánek, J. - Lapos, A. - Jakovenko, J. - Adolfsson, E. - et al.: Simulations of High Temperature Pressure Sensor Packaging and Interconnections. In EuroSimE 2012 - Proceedings of the conference www.eurosime.org [CD-ROM]. Porto: IEEE, 2012, vol. 1, p. 1-4. ISBN 978-1-4673-1511-1.
- [12] Pardo, B. - Gasse, A. - Fargeix, A. - Jakovenko, J. - Werkhoven, R. - et al.: Thermal Resistance Investigations on New Leadframe-Based LED Packages and Boards. In EuroSimE 2012 -

- Proceedings of the conference www.eurosime.org. Porto: IEEE, 2012, vol. 1, p. 1-4. ISBN 978-1-4673-1511-1.
- [13] Perpina, X - Werkhoven, R. - Vellvehi, M. - Jorda, X - Kunen, J. - et al.: LED Driver Thermal Design Considerations for Solid-State Lighting Technologies. In EuroSimE 2012 - Proceedings of the conference www.eurosime.org. Porto: IEEE, 2012, vol. 1, p. 1-4. ISBN 978-1-4673-1511-1.
 - [14] Jakovenko, J. - Werkhoven, R. - Formánek, J. - Kunen, J. - Bolt, P. J. - et al.: Thermal simulation and validation of 8W LED lamp. In Proceedings of the IEEE EuroSime 2011 conference [CD-ROM]. Vienna: IEEE Industrial Electronic Society, 2011, p. 1-4. ISBN 978-1-4577-0105-4
 - [15] Husák, M. - Bouřa, A. - Jakovenko, J.: One-chip MOS Structure for Temperature Flow Sensor. In 2010 Proceeding Nanotech, Clean Technology, Microtech, Bio nanotech [CD-ROM]. Boston: Nano Science and Technology Institute, 2010, p. 1-3. ISBN 978-1-4398-3421-3
 - [16] Husák, M. - Bouřa, A. - Jakovenko, J.: Wireless Sensor System with Bidirectional Communications. In 2010 Proceeding Nanotech, Clean Technology, Microtech, Bio nanotech [CD-ROM]. Boston: Nano Science and Technology Institute, 2010, vol. 1, p. 1-3. ISBN 978-1-4398-3421-3
 - [17] Husák, M. - Jakovenko, J.: Simple Vertical Velocity Measurement System for Different Use. In 2010 Proceeding Nanotech, Clean Technology, Microtech, Bio nanotech [CD-ROM]. Boston: Nano Science and Technology Institute, 2010, vol. 1, p. 1-3. ISBN 978-1-4398-3421-3.
 - [18] Kubař, M. - Jakovenko, J.: Novel Methods of the Analogue Integrated Circuit Design Teaching. In Electronic Devices and Systems, IMAPS CS International Conference 2010 Proceedings. Brno: VUT v Brně, FEI, 2010, vol. 1, p. 190-195. ISBN 978-80-214-4138-5.
 - [19] Kubař, M. - Šubrt, O. - Jakovenko, J. - Martinek, P.: Versatile Engine for Virtual Testing of ADC/DAC Non-Linearity. In The International Workshop on Symbolic and Numerical Methods, Modeling and Applications to Circuit Design 2010 [CD-ROM]. Tunis: IEEE - Tunisia, 2010, ISBN 978-1-4244-6815-7.
 - [20] Husák, M. - Bouřa, A. - Jakovenko, J.: Wireless Sensor Network Control System. In Conference Proceedings of the Eighth International Conference on Advanced Semiconductor Devices and Microsystems. Bratislava: IEEE, 2010, p. 215-218. ISBN 978-1-4244-8572-7
 - [21] Loposa, A. - Jakovenko, J. - Husák, M.: Temperature Dependence of the Pyroelectric Behaviour in GaN/AlGaN. In Conference Proceedings of the Eighth International Conference on Advanced Semiconductor Devices and Microsystems. Bratislava: IEEE, 2010, vol. 1, p. 93-96. ISBN 978-1-4244-8572-7.
 - [22] Husák, M. - Jakovenko, J.: Use of Barometric Sensor for Vertical Velocity Measurement.. In Conference Proceedings of the Eighth International Conference on Advanced Semiconductor Devices and Microsystems. Bratislava: IEEE, 2010, p. 223-226. ISBN 978-1-4244-8572-7.
 - [23] Jakovenko, J. - Formánek, J. - Werkhoven, R. - Kunen, J. - Bancken, P. - et al.: Design and life time evaluation of various LED boards for SSL lamp. In Proceedings of Electronic Devices and Systems EDS 2012. Brno: VUT v Brně, FEKT, 2012, vol. 1, p. 161-166. ISBN 978-80-214-4539-0.
 - [24] Jakovenko, J. - Werkhoven, R. - Formánek, J. - Kunen, J. - Bolt, P. J. - et al.: Thermo-mechanical Modeling and Characterization of High Power Solid State LED Lamp. In Electronic

- Devices and Systems, IMAPS CS International Conference 2011 Proceedings. Brno: VUT v Brně, FEKT, 2011, p. 178-201. ISBN 978-80-214-4303-7
- [25] Kubař, M. - Jakovenko, J.: Novel Analog Synthesis Tool Implemented to the Cadence Design Environment. In The International Workshop on Symbolic and Numerical Methods, Modeling and Applications to Circuit Design 2010 [CD-ROM]. Tunis: IEEE - Tunisia, 2010, ISBN 978-1-4244-6815-7.
- [26] Lalinsky, T. - Držík, M. - Vanko, G. - Vallo, M. - Bruncko, J. - Hascík, V. - Jakovenko, J. - Husák, M.: Piezoelectric response of AlGaN/GaN based circular-HEMT structures. In MNE 2010 [CD-ROM]. Florence: Consiglio Nazionale delle Ricerche, 2010, vol. 1, p. 1-4.
- [27] Jakovenko, J. - Lalinský, L.T. - Husák, M.: New Micromechanical Free Standing Hot Plates with HEMT Heater. In Electronic Devices and Systems, IMAPS CS International Conference 2009 Proceedings. Brno: VUT v Brně, FEI, 2009, vol. 1, p. 188-191. ISBN 978-80-214-3933-7
- [28] Kubař, M. - Jakovenko, J.: Design and Measurement of the 8-bit dual-slope A/D Converter. In Electronic Devices and Systems, IMAPS CS International Conference 2009 Proceedings. Brno: VUT v Brně, FEI, 2009, vol. 1, p. 325-330. ISBN 978-80-214-3933-7
- [29] Lalinsky, T. - Vanko, G. - Jakovenko, J. - Kutis, V. - Ivanova, M. - et al.: AlGaN/GaN HEMT based micro-hotplate for high temperature gas sensors. In The 35th International Conference on Micro & Nano Engineering. Leuven: IMEC, 2009, vol. 1, p. 103-106
- [30] Lalinsky, T.L. - Kutis, V.K. - Jakovenko, J. - Ivanova, M.I. - Vanko, G.V. - et al.: GaN MICRO-HOTPLATES FOR HIGH TEMPERATURE MEMS GAS SENSOR APPLICATIONS. In MME 2009 Micromechanics Europe Workshop. Toulouse: The Laboratory of Analysis and Architecture of Systems (LAAS), 2009, vol. 1, p. 206-209
- [31] Jakovenko, J. - Husák, M. - Lalinsky, T. - Držík, M.: Suspended Island MEMS Structure for High Temperature Gas Sensor. In Electronics Devices and Systems Proceedings. Brno: Vysoké učení technické v Brně, 2008, p. 150-153. ISBN 978-80-214-3717-3
- [32] Jakovenko, J. - Husák, M. - Lalinsky, T.: GaN and GaAs Micromechanical Thermal Converter for Gas Sensors. In MIPRO 2008 - Proceedings Vol. 1 MEET & GVS. Zagreb: Croatian Society SMFE, 2008, vol. 1, p. 150-153. ISBN 978-953-233-036-6
- [33] Kubař, M. - Jakovenko, J.: Tutorial of the control logic design for analogue integrated circuits designers. In SMACD 2008 Proceedings. Erfurt: Institut für mikroelektronik- und mechatronik-systeme gGmbH, 2008, vol. 1, p. 237-240. ISBN 978-3-00-025761-2
- [34] Kubař, M. - Jakovenko, J.: Tutorial of the design of the state machine for analogue integrated circuits. In Electronics Devices and Systems Proceedings. Brno: Vysoké učení technické v Brně, 2008, p. 336-340. ISBN 978-80-214-3717-3
- [35] Husák, M. - Jakovenko, J. - Vítěk, T.: Multisensor Network for Distance Data Pick-Up. In Technical Proceedings of the Nanotech 2007 [CD-ROM]. Boston: Nano Science and Technology Institute, 2007, vol. 1-4, p. 156-159. ISBN 1-4200-6349-9.
- [36] Jakovenko, J. - Husák, M. - Lainsky, T.L. - Drzik, M.D. - Vanko, G.V.: Design and Modeling of Micromechanical GaAs based Hot Plate for Gas Sensors. In DTIP 2007. Grenoble: TIMA, 2007, vol. 1, p. 147-150. ISBN 978-2-35500-000-3.
- [37] Jakovenko, J. - Husák, M. - Lalinsky, T.L. - Drzik, M.D. - Vanko, G.V.: Micromechanical GaAs Thermal Convertor for Gas Sensors. In Technical Proceedings of the Nanotech 2007 [CD-ROM]. Boston: Nano Science and Technology Institute, 2007, vol. 3, p. 244-247. ISBN 1-4200-6349-9.

- [38] Jakovenko, J. - Husák, M. - Lalinsky, T.L.: Design and Characterization of new GaAs Micromechanical Thermal Converter developed for Microwave Power Sensor. In Technical Proceedings of the Nanotech 2007 [CD-ROM]. Boston: Nano Science and Technology Institute, 2007, vol. 3, p. 104-107. ISBN 1-4200-6349-9.
- [39] Janíček, V. - Husák, M. - Jakovenko, J. - Suchánek, P.: PVDF Self Powered Microsystem. In ICOE International Conference on Organic Electronics 2007. Eindhoven: PHILIPS, 2007, vol. 1, p. 46-47.
- [40] Husák, M. - Bouřa, A. - Jakovenko, J.: Direction sensitivity matrix with PLL temperature sensor. In The Sixth International Conference on Advanced Semiconductor Devices and Microsystems. Bratislava: Slovak University of Technology, 2006, vol. 1, p. 177-180. ISBN 1-4244-0396-0.
- [41] Jakovenko, J. - Husák, M. - Lalinsky, T.L. - Drzik, M.D. - Vanko, G.V. - et al.: GaAs based micromachined thermal converter for gas sensors. In MicroMechanics Europe Workshop. Southampton: University of Southampton, 2006, p. 113-116. ISBN 0-85432-848-3.
- [42] Husák, M. - Jakovenko, J. - Bouřa, A.: Sensor System with Differential Arrangement of Temperature MOS Sensor. In IEEE International Conference on Industrial Technology (IEEE ICIT 2005): IEEE Industrial Electronic Society, 2005, vol. 1, p. 55.
- [43] Husák, M. - Jakovenko, J. - Kulha, P. - Janíček, V.: Design of Temperature Matrix with Direction Sensitivity. In Proceedings of the Nanotechnology Conference and Trade Show. Boston: Nano Science and Technology Institute, 2005, p. 407-410. ISBN 0-9767985-2-2.
- [44] Jakovenko, J. - Husák, M. - Lalinsky, T.: Optimization of GaAs MEMS Structures for Microwave Power Sensor. In Proceedings of the Nanotechnology Conference and Trade Show. Boston: Nano Science and Technology Institute, 2005, p. 606-609. ISBN 0-9767985-2-2.
- [45] Husák, M. - Jakovenko, J. - Kulha, P.: Approach to Microsystem Design. In Proceedings of the WSEAS International COnference: TELE-INFO'05. Athens: WSEAS Press, 2005, vol. 1, p. 121-126. ISBN 960-8457-11-4.
- [46] Jakovenko, J. - Husák, M. - Lalinský, T.: Thermo-Mechanical Optimization of Micromechanical Hot Plate for RF Power to Temperature Conversion. In Proceedings DTIP 2005. Grenoble: TIMA, 2005, vol. 1, p. 149-154.
- [47] Jakovenko, J. - Husák, M.: Micromechanical Structures for Low Level Power Measurement in Medical Systems. In The 3rd European Medical and Biological Engineering Conference - EMBEC'05 [CD-ROM]. Praha: Společnost biomedicínského inženýrství a lékařské informatiky ČLS JEP, 2005, vol. 11, ISSN 1727-1983.
- [48] Jakovenko, J. - Husák, M.: Modeling of GaAs MEMS for RF Power Measurement in Telecommunications. In Proceedings of the WSEAS International COnference: TELE-INFO'05. Athens: WSEAS Press, 2005, vol. 1, p. 127-132. ISBN 960-8457-11-4
- [49] Husák, M. - Jakovenko, J. - Kulha, P. - Novák, J. - Janíček, V.: Microsystem Models in Integrated Pressure Sensor Design. In Proceedings of the IEEE International Conference on Mechanotronics 2004. Piscataway: IEEE, 2004, vol. 1, p. 548-553. ISBN 0-7803-8599-3.
- [50] Husák, M. - Jakovenko, J. - Kulha, P. - Novák, J. - Janíček, V.: Integrated Pressure Sensor - Use of Microsystems Model Flow. In ASDAM 2004 - Conference Proceedings. Piscataway: IEEE, 2004, vol. 1, p. 299-302. ISBN 0-7803-8535-7.
- [51] Husák, M. - Jakovenko, J. - Kulha, P. - Novák, J. - Janíček, V.: Intelligent Sensor Structure for Tilt Measure. In ASDAM 2004 - Conference Proceedings. Piscataway: IEEE, 2004, vol. 1, p. 307-310. ISBN 0-7803-8535-7.

- [52] Husák, M. - Jakovenko, J. - Kulha, P. - Novák, J. - Janíček, V.: Macromodel of Intelligent Sensor Structure with Accelerometer. In Proceedings of the Nanotechnology Conference 2004. Boston: Nano Science and Technology Institute, 2004, vol. 1, p. 434-437. ISBN 0-9728422-7-6.
- [53] Kulha, P. - Husák, M. - Výborný, Z. - Jakovenko, J. - Vaněk, F.: Properties of Strain Sensor with Piezoresistive Layers. In MIPRO 2004 - Microelectronics, Electronics and Electronic Technologies. Chorvatsko: Mipro HU, 2004, p. 64-69. ISBN 953-233-001-1.
- [54] Husák, M. - Jakovenko, J. - Kulha, P. - Výborný, Z.: Mechanical, Thermal and Electrical Behaviour od Si Strain Guge. In ICMAT 2003. Singapore: MRS Singapore, 2003, vol. 1, p. 319.
- [55] Husák, M. - Jakovenko, J.: Approach to Design and Modelling of Microsystems for Communication Use. In International Conference on Computer, Communication and Control Technologies CCCT 2003 and ISAS 2003. Orlando: IIIS - International Institute of Informatics and Systemics, 2003, vol. III, p. 67-70. ISBN 980-6560-05-1.
- [56] Husák, M. - Kulha, P. - Jakovenko, J. - Výborný, Z.: Modeling and Simulation of Mechanical, Thermal and Electrical behaviour of Si Cantilever with Implanted Strain Gauge. In Nanotech 2003. Boston: Computational Publications, 2003, vol. 1, p. 1-4. ISBN 0-9728422-3-3.
- [57] Jakovenko, J. - Husák, M. - Lalinský, T.: Design and Simulation of the GaAs Micromechanical Thermal Converter for Microwave Transmitted Power Sensor. In Technical Proceedings of the 2003 Nanotechnology Conference and Trade Show. Cambridge, MA: Computationg Publications, 2003, p. 332-335. ISBN 0-9728422-0-9.
- [58] Jakovenko, J. - Husák, M. - Lalinsky, T.: Modeling of Thermally Isolated Micromechanical Thermo Converter. Conference Proceedings. In Eurosensors XVII. Guimaraes: University of Minho, 2003, p. 316-317. ISBN 972-98603-1-9.
- [59] Jakovenko, J. - Husák, M. - Lalinský, T.: Modeling of Thermally Isolated Micromechanical Thermo Converter. In Eurosensors XVII [CD-ROM]. Guimaraes: University of Minho, 2003,
- [60] Lalinský, T. - Jakovenko, J. - Krnáč, M. - Husák, M. - Hščík, Š. - et al.: Micromechanical Thermal Converter device Based on Polymide Fixed island Structure. In ICMAT 2003. Singapore: MRS Singapore, 2003, vol. 1, p. 329
- [61] Husák, M. - Jakovenko, J.: Concept of an Intelligent Microsystem Structure for Communication with Real Surrounding Space. In Proceedings of Fifth International Conference on Modeling and Simulation of Microsystems. Cambridge, MA: Computationg Publications, 2002, vol. 1, p. 294-297. ISBN 0-9708275-7-1.
- [62] Husák, M. - Kulha, P. - Jakovenko, J. - Výborný, Z.: Structures of Cantilever with Implanted Strain Gauge. In IMAPS 2002 [CD-ROM]. washington, DC: IMAPS, 2002,
- [63] Jakovenko, J. - Husák, M. - Lalinsky, T.: Thermo-mechanical Simulation of GaAs Based Microwave Power Sensor Microsystem. In Eurosensors XVI - Book of Abstracts. Praha: Czech Technical University in Prague, 2002, vol. 1-3, p. 63-64. ISBN 80-01-02576-4.
- [64] Husák, M. - Kulha, P. - Jakovenko, J. - Výborný, Z.: Design of Strain Gauge Structure. In ASDAM 2002. Bratislava: IEEE, 2002, vol. 1, p. 75-78. ISBN 0-7803-7276-X.
- [65] J. Jakovenko, M. Husák, "Thermo-Mechanical Simulation of GaAs Power Sensor Microsystem", Book of Extended Abstracts, 5th Int. Student Conference on Electrical Engineering - Poster 2001, Prague, pp.EE10, 2001.
- [66] J. Jakovenko, "Electrocaloric Flow Monitoring" POSTER 99 3rd International Student Conference on Electrical Engineering, May 27, Prague, pp. EEC9, 1999

Původní článek v českém věd. a odb. čas.

- [1] Jakovenko, J.: Nanotechnologie při výrobě integrovaných obvodů. DPS - PCB Printed circuit boards from A to Z. 2011, roč. 2011, č. 6, s. 7-9. ISSN 1804-4891.
- [2] Jakovenko, J. - Lalinsky, T. - Husák, M.: Vysokoteplotní MEMS struktury pro měření koncentrace plynů CO, H₂, NOx a uhlovodíků. Slaboproudý obzor. 2011, roč. 67, č. 3, s. 10-13. ISSN 0037-668X.
- [3] Husák, M. - Jakovenko, J.: MEMS prvky pro radioelektroniku. Slaboproudý obzor. 2011, roč. 67, č. 1, s. 2-5. ISSN 0037-668X.
- [4] Kubař, M. - Jakovenko, J.: Návrh osmibitového A/D převodníku s dvojí integrací. Slaboproudý obzor. 2011, roč. 67, č. 1, s. 26-29. ISSN 0037-668

Udělený patent národní

- [1] Janíček, V. - Formánek, J. - Jakovenko, J.: Struktura MEMS kondenzátoru elektrostatického generátoru. Patent Úřad průmyslového vlastnictví, 303335. 2012-06-21