

LISTA DE LUCRĂRI

Profesor DOBRESCU C. LIDIA

LISTA PRIMELOR 10 LUCRĂRILOR RELEVANTE:

1. L. Dobrescu, M. Petrov, D. Dobrescu, C. Ravariu, "Threshold voltage extraction methods for MOS transistors", 23rd IEEE International Semiconductor Conference (CAS 2000), Location: Sinaia, Romania, Oct. 10-14. 2000, pp. 371-374, vol. 2, ISBN 0-7803-5885-6, lucrare premiată cu "Best paper award", WOS:000168560900074, **Web of Science Categories:** Engineering, Electrical & Electronic; Materials Science, Multidisciplinary; Physics, Applied; Physics, Condensed Matter;
2. V. Pott, A. M. Ionescu, R. Fritschi, C. Hilbert, Ph. Fluckinger, G. A. Racine, M. Declerq, Ph. Renaud, A. Rusu, D. Dobrescu, L. Dobrescu "The suspended-gate MOSFET (SG-MOSFET): A Modelling Outlook for the Design of RF MEMS Switches and Tunable Capacitors", Proceedings of the 24-nd International Semiconductor Conference, CAS'2001, Sinaia, Romania, vol.1, pg. 137-140, 2001, WOS:000175459600025, **Web of Science Categories:** Engineering, Electrical & Electronic; Instruments & Instrumentation; Materials Science, Multidisciplinary; Optics;
3. C. Ravariu, A. Rusu, F. Ravariu, D. Dobrescu, L. Dobrescu, "From PSI-MOSFET with silicon on oxide to PSI-MOSFET with silicon carbide on nitride", Diamond and Related Materials Elsevier Journal, vol. 11, Issues 3-6, pp. 1268-1271, Mar.-Jun. 2002, ISSN: 0925-9635, DOI:10.1016/S0925-9635(02)00008-0, European Conference on Diamond, Diamond-Like Materials, Budapest, Hungary, Sept. 2001, Web of Science, IDS: 559VL, WOS:000176046300197, **Web of Science Categories:**Materials Science, Multidisciplinary; FI=1.572
4. D.N. Vizireanu, L. Dobrescu, M. Udrea, R.Preda, "S-type current controlled new class nonlinear negative resistances generation method", Romanian Journal of Information Science and Technology, Volume: 10, Issue: 2, Pg: 177-187, Published: 2007, ISSN: 1453-8245, WOS:000255783400006, **Web of Science Categories:**Computer Science, Theory & Methods; Instruments & Instrumentation; Physics, FI=0.453
5. M. Brezeanu, A.Rusu, L. Dobrescu, "MOS Channel Length Modulation in Weak Inversion", Proceedings of the 25-nd International Semiconductor Conference, CAS'2002, Sinaia, Romania, vol.2, pg. 301-304, lucrare premiată cu "Best paper award", 2002, WOS:000181629400064, **Web of Science Categories:**Engineering, Electrical & Electronic; Optics; Physics, Condensed Matter
6. L. Dobrescu, A.Rusu, "MOS Functional Device with Increased Transconductance", Proceedings of the 28-th International Semiconductor Conference, CAS'2005, Sinaia, Romania, vol.2, pg. 431-434, lucrare premiată cu "Best paper award", 2005, WOS:000237180300095, **Web of Science Categories:**Engineering, Electrical & Electronic; Physics, Applied
7. D. Dobrescu, A. Rusu, F. Udrea, L. Dobrescu "Image Force Effect on Forward Characteristic of a Rectifier Metal-Semiconductor Contact", Proceedings of the 24-nd International Semiconductor Conference, CAS'2001, Sinaia, Romania, vol.2, pg. 429-432, 2001, WOS:000175459600092
8. M.Craciun, A.Rusu, D.Bogdan, L. Dobrescu, "MOS Saturation Model Based On Channel Resistance," 2011, Proceedings of the 34-th International Semiconductor Conference, CAS'2011, Sinaia, Romania, vol.2, pg. 373-376, ISBN:978-1-61284-171-7, ISSN: 1545-827X, lucrare premiată cu "Best paper award", WOS:000320322000085
9. L. Dobrescu, S. Stanciu, "Radiation Safety Integrated System for Patients Investigated by Radiological Imaging Methods", The 8th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING, ATEE 2013, 23-25 Mai 2013, Bucuresti, Romania, pg. 1-4, ISBN:978-1-4673-5980-1; 978-1-4673-5979-5, WOS:000332928500072
- 10 L.Dobrescu, R. V.Caramaliu, S. Stanciu "Syncope Detection electronic System", E-Health and Bioengineering Conference (EHB), 2013, Page(s):1 - 4, Print ISBN:978-1-4799-2372-4, INSPEC Accession Number:14029210, Iasi, DOI: 10.1109/EHB.2013.6707266, IEEE INDEX, WOS:000346672900034, **Web of Science Categories:** Health Care Sciences & Services; Engineering, Biomedical; Medical Informatics, <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6707266>

B. TEZA DE DOCTORAT

T1. L.Dobrescu, "Modele Avansate ale tranzistoarelor bipolare și MOS în tehnologie submicronică - Contribuții la studiul și experimentarea dispozitivelor MOS în zona de prag a funcționării", U.P.B., februarie 2002.

C. CĂRȚI PUBLICATE

- C1. L. Dobrescu**, "De la limbajul natural la programare și modelare", 122 pg., Ed. Printech, ISBN 078-606-23-0311-2, București, 2014,
- C2. L. Dobrescu, D.Dobrescu**, "Basics of the Semiconductor Devices Physics", 142 pg., Ed. Printech, ISBN 973-718-364-9, Bucuresti, 2005;
- C3. A. Rusu, D. Dobrescu, L. Dobrescu**, "Dispozitive si Circuite Electronice note de curs si probleme rezolvate", 90 pg., Ed. Printech, ISBN 973-652-828-6, Bucuresti, 2003;
- C4. L. Dobrescu, D. Dobrescu**, "Modelarea avansată a dispozitivelor MOS", 104 pag., Ed. Printech, ISBN 973-652-561-9, București, 2002;

III. ALTE MATERIALE PUBLICATE (I,D)

- I1. D.Dobrescu, L.Dobrescu**, "Dispozitive si Circuite Electronice-Caiet de Activitate", 158 pag., Ed. Printech, ISBN 973-652-829-4, București, 2003;
- I2. D. Dobrescu, A. Rusu, L. Dobrescu**, "Culegere de probleme – Dispozitive și Circuite Electronice", 58 pag., Ed. Printech, ISBN 973-652-004-8, București, 1999;



- D1.** L. Dobrescu, D. Dobrescu, Lucrare de laborator pentru Laboratorul de Dispozitive și Circuite Electronice: "Simularea funcționării circuitelor electronice cu ajutorul programului SPICE", București 2003;
- D2.** L. Dobrescu, D. Dobrescu, Lucrare de laborator pentru Laboratorul de Modelarea Componentelor Microelectronice Active: "Modelarea diodelor semiconductoare cu ajutorul programului PARTS", București 2004.
- D3.** L. Dobrescu, D. Dobrescu, Lucrare de laborator pentru Laboratorul de Modelarea Componentelor Microelectronice Active: "Modelarea tranzistoarelor bipolare cu ajutorul programului PARTS, București 2004.
- D4.** L. Dobrescu, D. Dobrescu, Lucrare de laborator pentru Laboratorul de Dispozitive și Circuite Electronice: "Simularea funcționării amplificatoarelor cu reacție negativă cu ajutorul programului PSPICE", 8 pg., Multiplicare locală, București 2004;
- D5.** L. Dobrescu, Electronic devices and modelling, Course materials and Laboratory lab1-4, http://www.arh.pub.ro/wikilabs/index.php/Lidia_Dobrescu
- D6.** L. Dobrescu, Lucrare de laborator pentru Laboratorul de Modele ale componentelor pentru SPICE: "Modelarea dispozitivelor semiconductoare în mediul CADENCE-ORCAD" , Multiplicare locală, București 2016, disponibilă pe platforma www.arh.pub.ro/~ldobrescu
- D7.** L. Dobrescu, Lucrare de laborator pentru Laboratorul de Modele ale componentelor pentru SPICE: "Modelarea dispozitivelor semiconductoare în mediul LT SPICE" , Multiplicare locală, București 2016, disponibilă pe platforma www.arh.pub.ro/~ldobrescu

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

- Ris1.** C. Ravariu, A. Rusu, F. Ravariu, D. Dobrescu, L. Dobrescu, "From ψ -MOSFET with silicon on oxide to ψ -MOSFET with silicon carbide on nitride", Journal "Diamond and Related Materials", Elsevier Science Society, ISSN 0925-9635, vol. 11, issues 3-6, pp. 1268-1271, 2002, WOS:000176046300197, FI=1.572, Web of Science Categories:Materials Science, Multidisciplinary <http://www.sciencedirect.com/science/article/pii/S0925963502000080>
- Ris2.** D.N. Vizireanu, L. Dobrescu, M. Udrea, R. Preda, "S-type current controlled new class nonlinear negative resistances generation method", Romanian Journal of Information Science and Technology, Volume: 10, Issue: 2, Pages: 177-187, Published: 2007, WOS:000255783400006, FI=0.453, Web of Science Categories:Computer Science, Theory & Methods; Instruments & Instrumentation; Physics, Applied http://www.imt.ro/romjist/Volum10/Number10_2/pdf/06-Vizireanu.pdf
- Ris3.** D. Dobrescu, N. Vizireanu, L. Dobrescu, "Cascode Amplifier Performance Study for Sub-micron Mixed-Signal Integrated Circuits", Romanian Journal of Information Science and Technology, Publishing House of the Romanian Academy, vol. 9, nr.1, 2006, ISSN: 1453-8245, pg. 63-72, Bucuresti, 2006, Romanian Journal of Information Science and Technology is indexed and abstracted in the following Thomson Reuters products and information services: Science Citation Index Expanded (also known as SciSearch®), Journal Citation Reports/Science Edition. http://www.imt.ro/romjist/Volum9/Number9_1/DOBRESCU2.htm
- Ris4.** L. Dobrescu, A. Rusu, "Super- slope MOSFET Functional Device Analysis and Design", Romanian Journal of Information Science and Technology, Publishing House of the Romanian Academy, vol. 9, nr.1, 2006, ISSN: 1453-8245, pg. 43-51, 2006, Romanian Journal of Information Science and Technology is indexed and abstracted in the following Thomson Reuters products and information services: Science Citation Index Expanded (also known as SciSearch®), Journal Citation Reports/Science Edition. http://www.imt.ro/romjist/Volum9/Number9_1/DOBRESCU.htm
- Rio1.** L. Dobrescu, Gheorghe-Cristian Radulescu, "Radiation Dose Risk and Diagnostic Benefit in Imaging Investigations", American Journal of Bioscience and Bioengineering, vol. 3, issue 3-1, pg 22-26, 2015, DOI:10.11648/j.bio.s.2015030301.11, 2015, ISSN: 2328-5885 (Print); ISSN: 2328-5893 (Online) indexare Google Scholar, <http://arxiv.org/abs/1511.02091>
- Rio2.** L. Dobrescu, S. Stanciu, A. Ropot, "Radiation safety of the Patients Investigated by Radiological Imaging Methods" International Journal of Monitoring and Surveillance Technologies Research, Oct-Dec 2013, Vol.1, Nr4, DOI 10.4018/IJMSTR, ISSN 2166-7241, EISSN 2166-725X, indexare Google Scholar http://scholar.google.ro/citations?view_op=view_citation&hl=ro&user=rJARWhYAAAAJ&cstart=20&citation_for_view=rJARWhYAAAAJ:roLk4NBRz8UC, <http://www.igi-global.com/article/radiation-safety-of-the-patients-investigated-by-radiological-imaging-methods/101964>
- Rns1.** L. Dobrescu, C. Pleșca, S. Stanciu, "Sistem integrat pentru siguranța Pacienților Investigați prin Metode imagistice radiologice", Revista de Medicină Militară, Nr. 1-2, 2013, revista introdusă în Nomenclatorul Publicațiilor Medicale al CMR, categoria C, cod CNCIS 630.
- Rno1.** D. Dobrescu, L. Dobrescu, A. Rusu, "Utilizarea dispozitivelor MOS cu poarta mobilă în proiectarea circuitelor de radiofrecvență", Revista Agenției de Cercetare pentru Tehnică și Tehnologii Militare, ACTTM, nr. 2/2002, ISSN 1454-0363, pg. 15-25, Bucuresti, 2002;
- Rno2.** A. Rusu, D. Dobrescu, L. Dobrescu, "Metode moderne de caracterizare a componentelor electronice cu aplicații speciale", Revista Agenției de Cercetare pentru Tehnică și Tehnologii Militare, ACTTM nr.2-3/2000, ISSN 1454-0363, pg. 22-31, Bucuresti, 2000;
- Vis1.** L. Dobrescu, "Dielectric Powders X-Ray Crystallography using Rietveld Refinement.", 29rd IEEE International Conference on Microelectronics, Location: Belgrad, Serbia, May. 12-15. 2014, pp, ISSN: 2159-1660, ISBN: 0-7803-7235-2, INDEXARE IEEE, WOS:000360788600051, Web of Science Categories:Engineering, Electrical & Electronic; Nanoscience & Nanotechnology <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6842134>

Vis2. L. Dobrescu, "Electronic recording of radiation effective doses in medical imaging investigations", 2014 IEEE 8th International Conference and Exposition on Electrical and Power Engineering, EPE2014, Iasi, 16-18 octombrie 2014, INDEXARE IEEE, WOS:000353565300146, WEB OF SCIENCE CATEGORIES:ENERGY & FUELS; ENGINEERING, ELECTRICAL & ELECTRONIC, <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6970019>

Vis3 L.Dobrescu, R. V.Caramaliu, S.Stanciu Syncope Detection electronic System", E-Health and Bioengineering Conference (EHB), 2013, WOS:000346672900034, **Web of Science Categories:**Health Care Sciences & Services; Engineering, Biomedical; Medical Informatics, <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6707266>

Vis4. A. Rusu, L. Dobrescu, M.Enachescu, A.Rusu, C.Burileanu " Common Anode Amplifier of a Commercial MOS Transistor In Avalanche Gated Diode Configuration", 2012, Proceedings of the 35-th International Semiconductor Conference, CAS'2012, Sinaia, Romania, vol.2, pg. 403-406, WOS:000314223700082, Web of Science Categories:Engineering, Electrical & Electronic <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6400747>

Vis5. L.Dobrescu, S. Stanciu, "Radiation Safety Integrated System for Patients Investigated by Radiological Imaging Methods", The 8th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING, ATEE 2013, 23-25 Mai 2013,pg. 1-4, Bucuresti, Romania, WOS:000332928500072, Web of Science Categories:Engineering, Electrical & Electronic <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6563418>

Vis6. M.Craciun, A.Rusu, D.Bogdan, L.Dobrescu, "MOS Saturation Model based on Channel resistance," 2011, Proceedings of the 34-th International Semiconductor Conference, CAS'2011, Sinaia, Romania, vol.2, pg. 373-376, lucrare premiata cu "Best paper award", WOS:000320322000085, Web of Science Categories:Engineering, Electrical & Electronic; Physics, Applied; Physics, Condensed Matter <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6095820>

Vis7. C. Ravariu, H. Zoltan, L. Dobrescu, F. Ravariu. " The three valued logic implementation on a hybrid SOI structure", 29th IEEE International Semiconductor Conference (CAS 2006), Location: Sinaia, Sept. 27-29, 2006, Romania, in Proceedings pp.425-428, vol.2, 2006, ISBN 1-4244-0109-7, WOS:000243090700091, Web of Science Categories:Engineering, Electrical & Electronic; Nanoscience & Nanotechnology <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4063264>

Vis8. D.N. Vizireanu, L.Dobrescu, M.Udrea, R.Preda, " A new class of S-Type Current Controlled Nonlinear Negative Resistances", Vol 2, pg. 395 - 398, Proceedings of the 29-th International Semiconductor Conference, CAS'2006, Sinaia, WOS:000243090700084, Web of Science Categories:Engineering, Electrical & Electronic; Nanoscience & Nanotechnology <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4063256>

Vis9. D. Dobrescu, N. Vizireanu, L.Dobrescu "Modeling the behaviour of the Submicron MOS Transistors in Mixed-Signal Integrated Circuits", Proceedings of the 28-th International Semiconductor Conference, CAS'2005, Sinaia, Romania, vol.2, pg 339-342, 2005, index ISI, WOS:000237180300074, Web of Science Categories:Engineering, Electrical & Electronic; Physics, Applied <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1558794>

Vis10. L.Dobrescu, A.Rusu, "MOS Functional Device with Increased Transconductance", Proceedings of the 28-th International Semiconductor Conference, CAS'2005, Sinaia, Romania, vol.2, pg. 431-434, lucrare premiata cu "Best paper award", 2005, WOS:000237180300095, Web of Science Categories:Engineering, Electrical & Electronic; Physics, Applied <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1558819>

Vis11. C. Ravariu, A Rusu, O. Nedelcu, F. Ravariu, F. Babarada, L.Dobrescu " A MEMS dedicated to the bio-components detection, inspired from the SON architecture" Proceedings of the 28-th International Semiconductor Conference, CAS'2005, Sinaia, Romania, vol.1, pg 219-222, 2005, WOS:000237180300046, Web of Science Categories:Engineering, Electrical & Electronic; Physics, Applied <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1558752>

Vis12. C. Ravariu, A. Rusu, F. Ravariu, D. Dobrescu, L. Dobrescu. "Alternative methods of parameter extraction based on the pseudo-MOS technique", 24th IEEE International Conference on Microelectronics (MIEL 2004) Location: Nis, Serbia, Date: May. 16-19, 2004, in Proc. pp.249-252, ISBN 0-7803-5235-1, ISSN: 2159-1660, WOS:000222219300046, Web of Science Categories:Engineering, Electrical & Electronic <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1314608>

Vis13. D. Dobrescu, L.Dobrescu, A. Rusu, A. M. Ionescu, "Modeling the suspended gate MOSFET used as voltage programmable switch", Vol.1, pag 209-212, Proceedings of the 26-th International Semiconductor Conference, CAS'2003, Sinaia, WOS:000189468100044, Web of Science Categories:Engineering, Electrical & Electronic; Instruments & Instrumentation; Optics; Physics, Condensed Matter <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1251379>

Vis14. M. Brezeanu, A.Rusu, L.Dobrescu, "MOS Channel Modulation in Weak Inversion", Proceedings of the 25-th International Semiconductor Conference, CAS'2002, Sinaia, Romania, vol.2, pg. 301-304, lucrare premiata cu "Best paper award", 2002, WOS:000181629400064, Web of Science Categories:Engineering, Electrical & Electronic; Optics; Physics, Condensed Matter <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1105854>

Vis15. C. Ravariu, F. Ravariu, A. Rusu, D. Dobrescu, L. Dobrescu, C. Popa, I. Chiran, " A New Job for the Pseudo-MOS Transistor: Working in the Pressure Sensors Field", 9th IEEE International Conference on Electronics, Circuits and Systems ICECS, Sept. 15-18. 2002, pp. 215-218, Croatia, Dubrovnik, ISBN: 0-7803-7596-3, indexare ISI Web of Science, IDS: BW11T, WOS:000180927800054, Web of Science Categories:Computer Science, Information Systems; Engineering, Electrical & Electronic; Telecommunications <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1045372>

Vis16. L. Dobrescu, D. Dobrescu, A. Rusu, C. Ravariu, " Mechanical influences on mobile gate MOS capacitors electrical characteristics", 23rd IEEE International Conference on Microelectronics, Location: Nish, Yugoslavia, May. 12-15. 2002, pp. 227-230, ISSN: 2159-1660, ISBN: 0-7803-7235-2, WOS:000176359700040, Web of Science Categories:Engineering, Electrical & Electronic; Physics, Condensed Matter <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1003181>

Vis17. C. Ravariu, F. Ravariu, A. Rusu, D. Dobrescu, L. Dobrescu, I. Chiran, " Exacts solutions of the Poisson's equations in pseudo-MOS/SOI transistors", 25th IEEE International Semiconductor Conference, Location: Sinaia, Romania, Oct. 08-12. 2002, pp. 249-252, ISBN: 0-7803-7440-1, lucrare premiată cu "Best paper award", indexare ISI Web of Science, WOS:000181629400052, Web of Science Categories:Engineering, Electrical & Electronic; Optics; Physics, Condensed Matter <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1105842>

Vis18. V. Pott, A. M. Ionescu, R. Fritschi, C. Hilbert, Ph. Fluckinger, G. A. Racine, M. Declerq, Ph. Renaud, A. Rusu, D. Dobrescu, L.Dobrescu "The suspended-gate MOSFET (SG-MOSFET): A Modelling Outlook for the Design of RF MEMS Switches and Tunable Capacitors", Proceedings of the 24-nd International Semiconductor Conference, CAS'2001, Sinaia, Romania, vol.1, pg. 137-140, 2001, WOS:000175459600025, Web of Science Categories:Engineering, Electrical & Electronic; Instruments & Instrumentation; Materials Science, Multidisciplinary; Optics <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=967431>

Vis19. L.Dobrescu M. Brezeanu, A. Rusu, A. M. Ionescu, "On the Limit between Subthreshold and Strong Inversion Regions in the EKV Model using the Nonlinear Electrical Conduction Theorem", Proceedings of the 24-nd International Semiconductor Conference, CAS'2001, Sinaia, Romania, vol.2, pg. 421 - 424, 2001, WOS:000175459600090.

Vis20. D. Dobrescu, A. Rusu, F. Udrea, L.Dobrescu "Image Force Effect on Forward Characteristic of a Rectifier Metal-Semiconductor Contact", Proceedings of the 24-nd International Semiconductor Conference, CAS'2001, Sinaia, Romania, vol.2, pg. 429-432, 2001, WOS:000175459600092, Web of Science Categories:Engineering, Electrical & Electronic; Instruments & Instrumentation; Materials Science, Multidisciplinary; Optics <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=967500>

Vis21. C. Ravariu, F. Ravariu, A. Rusu, D. Dobrescu, L. Dobrescu, " The modeling of a SOI mechanical sensor", IEEE International Conference on Simulation of Semiconductor Processes and Devices (SISPAD 01), Location: Athens, Greece, Sept. 05-07. 2001, pp.328-331, Proceedings with Editors Tsoukalas D; Tsamis C, ISBN: 3-211-83708-6, indexare ISI Web of Science, WOS:000172900500074, Web of Science Categories:Engineering, Electrical & Electronic http://link.springer.com/chapter/10.1007%2F978-3-7091-6244-6_74#page-1

Vis22. C. Ravariu, F. Ravariu, D. Dobrescu, L.Dobrescu, C. Codreanu, M. Avram, " *Designing Roule for a Pressure Senzor with PZT Layer*", Proceedings of the 24-nd International Semiconductor Conference, CAS'2001, Sinaia, Romania, vol.2, pg. 379-382, 2001, index ISI WOS:000175459600080

Vis23. C. Ravariu, A. Rusu, D. Dobrescu, L. Dobrescu, F. Ravariu, C. Codreanu, M. Avram, " A Mathematical Model for Threshold Voltage of a Partially and Fully Depleted MOS/SOI Structure with a Gaussian Distribution in the Film", 3-rd Edition IEEE International Conference on Modeling and Simulation of Microsystems, Location: San Diego, CA, Mar. 27-29. 2000, Proceedings with Editors Laudon M.; Romanowicz B., pp. 404-407, 2000, ISBN: 0-9666135-7-0, indexare ISI Web of Science, WOS:000223049100102, Web of Science Categories:Engineering, Electrical & Electronic; Instruments & Instrumentation; Materials Science, Multidisciplinary; Optics <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=967488>

Vis24. C. Ravariu, A. Rusu, D. Dobrescu, F. Ravariu, L. Dobrescu, " An analytical model for static characteristics of a pseudo-MOS transistor with neutral channel", 23rd IEEE International Semiconductor Conference (CAS 2000), Location: Sinaia, Romania, Oct. 10-14. 2000, pp. 307-310, ISBN: 0-7803-5885-6, WOS:000168560900059, Web of Science Categories:Engineering, Electrical & Electronic; Materials Science, Multidisciplinary; Physics, Applied; Physics, Condensed Matter <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=890241>

Vis25. L. Dobrescu, M. Petrov, D. Dobrescu, C. Ravariu, " Threshold voltage extraction methods for MOS transistors", 23rd IEEE International Semiconductor Conference (CAS 2000), Location: Sinaia, Romania, Oct. 10-14. 2000, pp. 371-374, vol. 2, ISBN 0-7803-5885-6, **lucrare premiată cu "Best paper award"**, WOS:000168560900074, Web of Science Categories:Engineering, Electrical & Electronic; Materials Science, Multidisciplinary; Physics, Applied; Physics, Condensed Matter <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=890257>

Vis26. A.Rusu, D. Dobrescu, C. Anghel, L.Dobrescu "New Parabolic-Law Model for Zener Diodes", Proceedings of the 21-st International Semiconductor Conference, CAS'98, Sinaia, Romania, vol.1, pg. 145-148, 1998, WOS:000078772400022, Web of Science Categories:Engineering, Electrical & Electronic; Materials Science, Characterization & Testing; Optics; Physics, Applied <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=732320>

Vis27. D. Dobrescu, R. Comănescu, L. Dobrescu "Neuron MOS Technique designed 8 channels Winner Takes it All Integrated Circuit", Proceedings of the 21-st International Semiconductor Conference, CAS'98, Sinaia, Romania, vol.2, pg. 575-578, lucrare premiată cu "Best paper award", 1998, WOS:000078772400111, Web of Science Categories:Engineering, Electrical & Electronic; Materials Science, Characterization & Testing; Optics; Physics, Applied <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=733815>

Vis28. D. Neculoiu, D. Dobrescu, L.Dobrescu "Double Barrier Resonant Tunneling Diodes in Frequency Multiplier Applications Performances Study", Proceedings of the 21-st International Semiconductor Conference, CAS'98, Sinaia, Romania, vol.2, pg. 613-616, 1998, WOS:000078772400120, Web of Science Categories:Engineering, Electrical & Electronic; Materials Science, Characterization & Testing; Optics; Physics, Applied <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=733824>

Vis29. L. Dobrescu, Cezar Plesca, Armand Ropot, " Radiation Protection of Patients in Medical Investigations," The 3-d IEEE Workshop on Advances in Information, Electronic and Electrical Engineering AIEEE 2015, Riga, Latvia, November, 2015.978-1-5090-1201-5/15/\$31.00 ©2015 IEEE, pag 1-4, indexare IEEE, http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=7367281 http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=7367281

Vis30. L. Dobrescu, Armand Ropot, D. Dobrescu, Silviu Stanciu, "Radiation Protection Standards for Medical Investigations", International Conference ICTMs 2015, December 29-30, 2015, London
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VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

Pn1. L. Dobrescu, director "Un nou Sistem radiologic inovativ pentru radioprotecția pacienților investigați prin metode imagistice radiologice bazat pe smartcarduri și infrastructura PKI-New Innovative System for Radiation Safety of Patients Investigated by Radiological Imaging Methods, based on Smart Cards and PKI Infrastructures", SRSPRIM, PNII-PCCA-187/2012-2016, UPB -Coordonator, Surse de finanțare: UEFISCDI -buget și CERTSIGN SA, membra a grupului de firme UTI -cofinanțare. Total buget alocat 2.347.656 lei, din care 1.760.207,7 lei buget și 587.448,3 cofinanțare proprie.

Pn2. L. Dobrescu, director "Structuri Superpantă pentru Tehnologii Nanometrice", Grant al Academiei Române, Nr. 154/2005, 2005-2006, Sursa de finanțare: Academia Română, buget alocat 6800 lei, din care 3000 lei în 2005 și 3800 în 2006.

Pi1. A. Rusu (director contract), **L. Dobrescu** în colectiv, "Modele avansate pentru tranzistoare bipolare și MOS în tehnologia submicronice", contract 12614, tema C35, Banca Mondiala, 1999 - 2002;

Pi2. A. Rusu (director contract), **L. Dobrescu** în colectiv, "Dispozitive, Circuite și Microsisteme Electronice", contract 46182, tema D107, Banca Mondiala, CNCSIS-UPB, București, 1998 - 2001;

Pi3. A. M. Ionescu(director contract), participant: **L.Dobrescu** , Low power electrostatic silicon on sapphire RF switches for telecom applications, Contract cod ESSOS, Wildhainweg 20 CH-3001. Proiect internațional între Swiss National Science Foundation, Ecole Polytechnique Federale de Lausanne și Universitatea Politehnica București, România, derulare între 2000-2003.

Pn1. Contract nr. 62-063/ 01.10.2008, (ElectroCel), nr. int. UPB EL070819, Director Proiect: Cristian Ravariu, Tehnologie neinvazivă de caracterizare funcțională a masei beta celulare cu biodispozitive electronice neconvenționale, Proiecte Complexe PNII, Programul PARTENERIATE ÎN DOMENIILE PRIORITARE, Derulare: 01.10.2008 – 30.09.2011 , comisia 6 (Biotehnologii)

Pn2. PN-II-PT-PCCA-2013-4-2135 Sistem balistic de calibrul mic, rapid convertibil pentru acțiuni letale și neletale . Marius Valeriu Carmaci-Matei, academia Tehnica Militară -responsabil, **L.Dobrescu** în colectiv

Pn3. PN-II-PT-PCCA-2013-4-0668, Sistem informatic de monitorizare și asistare personalizată ARTHAND, director proiect UPB Conf. univ. dr.ing. Dascalu Monica, L.Dobrescu în colectiv

Pn4. Contract POSCCE, Axa prioritara 2: Competitivitate prin Cercetare, Dezvoltare Tehnologică și Inovare Operațiunea 2.3.3 Promovarea inovării în cadrul întreprinderilor, "Sistem inteligent activ pentru învățarea scrierii caligrafice" ATIBO, L.Dobrescu în colectiv

Pn5. Contract POSDRU ELAMAN, POSDRU/161/2.1/G/135812, L. Dobrescu consilier în colectiv, durata 18 luni

Pn6. Contract CEEX-M1-C2-6530, A. Rusu, responsabil, L.Dobrescu în colectiv, "Rețea tehnologică destinată integrării României în Platforma Europeană de NANOElectronică" -RTN-NANOEL", 2006-2008

Pn7. Contract CEEX 6103, D. Dobrescu responsabil, L. Dobrescu în colectiv, "Microstructuri de senzori și actuatori destinate micropoziționării și micromanipulării- mecanice și biologice - MEMSAS", 2005-2007;

Pn8. Contract P-CD, CEEX, A. Rusu, responsabil, L.Dobrescu în colectiv, "Materiale avansate nanocompozite cu proprietăți antibacteriene, de autocurățare și structuri integrate de concentratoare de energie solară utilizate în construcțiile civile pentru ameliorare ambientală" - NANOAMBIENT", 2005-2007;

Pn9. Contract P-CD, CEEX, A. Rusu, responsabil, L.Dobrescu în colectiv, "ROManian Inventory and NETworking for Integration in ERA" -ROMNET-ERA", 2004-2007;

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Pn12. Contract nr. 717 / Cod CNCISIS 449, din 2009, Programul PN2 Idei, CNCISIS, Director: A. Rusu, L.Dobrescu în colectiv, O noua categorie de dispozitive electronice si circuitele corespunzatoare, 2009-2011, L.Dobrescu în colectiv .

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Pn15 Contract tip A CNCISIS, nr. 55, cod 1433/2004, Director contract: A. Rusu, participant: L. Dobrescu, Dispozitive novatoare în nanoelectronică, 3 ani, derulare 2004-2006, L.Dobrescu, responsabil faza 2 "Structura super-g MOS cu canal n, evaluarea performantelor în frecventa" în cadrul contractului "Dispozitive novatoare în nanoelectronică", director proiect A. Rusu, Contract tip A CNCISIS nr. 55, cod 1433/2004-2006, 2005;

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Pn17. Grant A.N.S.T.I., Tema A.62, Contract nr. 5076/1999, Director contract: Dragoș Dobrescu, participant: L.Dobrescu, Tratarea fenomenologica a proceselor de conductie în electronica, pe baza teoremei de conductie electrica liniara (Rusu), derulare 1998-2000, L.Dobrescu, responsabil faza "Extinderea teoremei la dispozitive electronice moderne", tema B76, contract nr. 5076/99, ANSTI - UPB, 1999;

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VII. COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE (E)

E – Lucrări prezentate la diferite seminarii/expoziții, conferințe, etc.

E1. L. Dobrescu- Sustinerea publica a lucrării "Un nou Sistem radiologic inovativ pentru radioprotectia pacientilor investigati prin metode imagistice radiologice bazat pe smartcarduri si infrastructura PKI- SRSPiRIM" la Biblioteca Nationala a Romaniei – Sala Mircea Vulcanescu, 19 iunie 2014, eveniment organizat de UEFISCDI

E2. L. Dobrescu - "Modele fizice pentru tranzistoarele MOS", referatul 1 de doctorat, 2000;

E3. L Dobrescu – "Efecte specifice pentru tranzistoarele MOS cu canal foarte scurt", referatul 2 de doctorat, 2000;

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E5. C. Ravariu, A. Rusu, F. Ravariu, L. Dobrescu, F. Babarada, The Back-Gate tunneling breakdown limitation in a NOI nanodevice with cavity, 6th International Conference on Nanoscience and Technology ICN+T 2007, Sweden, Stockholm, under IUVSTA auspices (International Union of Vacuum Science Technique and Applications), NSP2-174, pp.103, 2007,

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