

I. LISTA CELOR MAI RELEVANTE LUCRARI

1. **Cristian Ravariu**, Cătălin Pârvulescu, Elena Manea, Adrian Dinescu, Raluca Gavrilă, Munizer Purica, Vijay Arora, "Manufacturing of a Nothing On Insulator Nano-Structure with two Cr/Au Nanowires Separated by 18 nm Air Gap", **Nanotechnology** (IOP Journal), **Q1 zona Rosie** IF=3.39, (Phys. Appl), ISSN: 0957-4484, accepted Feb. 2020.
2. **Cristian Ravariu**, Daniela Istrati, Dan Mihaiescu, Alina Morosan, Bogdan Purcareanu, Rodica Cristescu, Roxana Trusca, Bogdan Vasile, *Solution for green organic thin film transistors: Fe<sub>3</sub>O<sub>4</sub> nano-core with PABA external shell as p-type film*, **Journal of Materials Science - Materials in Electronics** (Springer Journal), vol31, no.4, pp. 3063-3073. (ISSN: 0957-4522 (Print) 1573-482X (Online)), **Q2-zona Galbena** IF=2, DOI: 10.1007/s10854-019-02851-3, Accepted 31 Dec 2019, Published 11 Ian 2020.  
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4. **Ravariu C.**, Manea E., Babarada F., Ursutiu D., Mihaiescu D., Popescu A., "Organic Compounds Integrated on Nanostructured Materials for Biomedical Applications", Chapter 2 at section Biomedical Engineering in **Springer book: Smart Industry & Smart Education**. Editors: Auer M., Langmann R., vol 47. Springer, Cham, Jan 2019, pp 489-497, WOS:000455197300055, DOI:10.1007/978-3-319-95678-7\_55, Publisher Name - Springer, Print ISBN 978-3-319-95677-0, Online ISBN 978-3-319-95678-7, ISSN: 2367-3370.
5. **Cristian RAVARIU**, Nicu BIZON, Elena MANEA, Florin BABARADA, Cătălin PÂRVULESCU, Dan Eduard MIHAIESCU, Maria STANCA, Chapter 12 " PV Microgrids Efficiency: From Nanomaterials and Semiconductor Polymer Technologies for PV Cells to Global MPPT Control for PV Arrays " in **Springer Book "Microgrid Architectures, Control and Protection Methods"**, Series Title "Power Systems", Editors: Naser Mahdavi Tabatabaei, Ersan Kabalci, Nicu Bizon, pp. 289-325, July 2019, Print ISBN 978-3-030-23722-6. **Online ISBN** 978-3-030-23723-3, Springer Nature Switzerland.
6. **C. Ravariu**, *Vacuum nano-triode in Nothing-On-Insulator configuration working in Terahertz domain*, **IEEE Journal of the Electron Devices Society**, (IEEE Journal) vol. 6, no. 1, 2018, pp. 1115-1123, DOI 10.1109/JEDS.2018.2868465, Print ISSN: 2168-6734, **Q2-zona Galbena** IF=2.69, WOS:000445354800001 din sept 2018, Publication in IEEE: 03 Sept. 2018. WOS:000445354800001
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T1. **Cristian Ravariu**. *Structuri integrate pe substraturi izolate dielectric*, Biblioteca centrală a Universității Politehnica din București, 2001, coordonator Prof. dr. ing. Adrian Rusu.

T. (Engl): **Cristian Ravariu**.

## III. CĂRȚI PUBLICATE (C)

**Ca – Cărți / cursuri (manuale) pentru uzul studenților, publicate în edituri recunoscute.**

**Ca.1. C. Ravariu, S. Ionel.** *Programul SPICE de simulare a circuitelor electronice*, Editura Academia oamenilor de știință din România, București, ISBN 978-606-8371-03-0, 2011, cartea are 82 pagini, contribuția autorului C. Ravariu este între paginile 1-58.

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**Cb - Cărți de specialitate publicate în edituri recunoscute (autor, coautor, editor).**

**Cb.1. Cristian Ravariu.** *Biodispozitive electronice: de la nanostructuri la aplicații medicale*, Editura Politehnica Press, ISBN 978-606-515-071-3, București, 2010, pag. 1-232.

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**Categories / Classification ISI** :Research Areas:Engineering, **Web of Science Categories**:Engineering, Biomedical

**Document Information**:Document Type:Article; Book Chapter, **Accession Number**: WOS:000363727000007

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**IV. ARTICOLE / STUDII IN EXTENSO, PUBLICATE ÎN REVISTE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL**

**Ris - Reviste de specialitate de circulație internațională indexate ISI-Thomson Web of Knowledge. Se menționează la fiecare lucrare includerea în Baza ISI [ultimul Factor Impact, ISSN, WOS]**

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##### **E – Lucrări prezentate în Abstract la diferite conferințe, alte lucrări și contribuții științifice.**

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4.2. Cristian Ravariu, Doru Ursutiu, Florin Babarada, Constantin Ionescu Tirgoviste, Arhip Janel, Sorin Arama, Cornel Samoila. Electronic circuits dedicated for new platforms in electrophysiology - new topics for Solid State Circuits, International Conference - New Trends on Sensing- Monitoring- Telediagnosis for Life Sciences- NT-SMT-LS, organised by Transilvania University of Brasov, Romania, during July 24-26, 2014, code O.4.7, pp. 144, Abstract book, 17:45-18:00, 25 Jul 2014, oral, a satellite event to SSCS37 Chapter.

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**BDI.2.** Amin Khosravi, Mahdi Khosravi, Parastoo Nozari. Design modeling and optimization of a multilayer diaphragm used in optical pressure sensor, 2012 IEEE International Conference on Computer Science and Automation Engineering (CSAE), ISBN 978-1-4673-0089-6/12/\$26.00 ©2012 IEEE, pp.439-443, manifestare *indexata IEEE-Xplore* si vizibil si pe *GOOGLE SCHOLAR*, citează la ref 1, articolul din Conferinta ISI: F. Ravariu, **C. Ravariu**, O. Nedelcu. *The modeling of a sensor for the human blood pressure*, 25th IEEE International Semiconductor Conference, Location: Sinaia, Romania, Oct. 08-12 2002, pp. 67-70.

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**BDI.6.** Robert A. Freitas Jr. Medical Nanorobotics: The Long-Term Goal for Nanomedicine, Chapter 14 pp. 367-392, available on Google Scholar at [http://scholar.google.ro/scholar?cluster=9449186020616310364&hl=en&as\\_sdt=2005&scioldt=0,5#](http://scholar.google.ro/scholar?cluster=9449186020616310364&hl=en&as_sdt=2005&scioldt=0,5#) 2009; *volum indexat pe GOOGLE SCHOLAR*, citează la ref. 30 de la pp. 389, articolul dintr-un jurnal ISI: **Ravariu C.**; Rusu A.; Udrea F.; Ravariu F. *Simulations results of some diamond on insulator nano-MISFETs*, Diamond and related materials Elsevier Journal, Vol. 15, no. 4-8, p. 777-782, DOI: 10.1016/j.diamond.2005.11.050.

**BDI.7.** N. Golescu, G. Ciachir, F. Babarada, J. Arhip. The electrophysiological signal recording, *IEEE Int. Conf. of Semiconductors Proceedings*, Sinaia, Romania, 12-14.Oct. 2009, pp. 553-556, *indexat in baza de date IEEE-Xplore*, Digital Object Identifier: 10.1109/SMICND.2009.5336652, citează la ref. 5, articolul din Conferinta ISI: **C. Ravariu**, F. Ravariu, A. Rusu. *Analysis of the non – linear responses of some biosensors*, IEEE Int. Conf. Proceedings, Sinaia, Romania, CAS'03, p.193-196, 2003.

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**BDI.9.** Yang Hui, Zhang Zhengxuan, Zhang Enxia. Total dose radiation effect for SIMOX SOI materials with the pseudo-MOS method, *Journal of functional materials and devices*, China, indexat in GOOGLE SCH., available at <http://www.oriprobe.com/journals/gnclyqjxb.html>, vol.13, no.3, 2007, pp. 233-236, ISSN 1007-4252, citează la ref. 4, articolul din Conferinta ISI: **C. Ravariu**, A. Rusu, D. Dobrescu, L. Dobrescu, F. Ravariu, C. Codreanu, M. Avram. *A mathematical model for the threshold voltage of a partially and fully depleted MOS/SOI structure with a Gaussian distribution in the film*, 3-rd Edition IEEE Int. Conf., Modeling and Simulation of Microsystems MSM'2000, San Diego, USA, Proceedings pp. 345-349, 2000.

**BDI.10.** Yang Hui, Zhang Zhengxuan, Zhang Enxia. Total-dose radiation effect for SIMOX SOI materials with the pseudo-MOS method, *Journal of functional materials and devices*, China, indexat in GOOGLE SCH., available at <http://www.oriprobe.com/journals/gnclyqjxb.html>, vol.13, no.3, 2007, pp. 233-236, ISSN 1007-4252, citează la ref. 5, articolul din Conferinta ISI: **C. Ravariu**, A. Rusu, D. Dobrescu, F. Ravariu, L. Dobrescu, *An analytical model for static characteristics of a pseudo-MOS transistor with neutral channel*, IEEE Int. Conf. Proceedings, CAS'2000, Romania, Sinaia, pp. 307-310.

### Neindexate (ne-incluse în calculul criteriilor)

**BD.1.** V. Mohammadi, M. H. Sheikhi, Design modeling and optimization of a multilayer thin-film pzt diaphragm used in pressure sensor; *International Journal of Engineering and Applied Sciences* (IJEAS), Vol.1, no. 4, June 2009, p.27-38, citeaza la ref 3, articolul din Conferinta ISI: F. Ravariu, **C. Ravariu**, O. Nedelcu. *The modeling of a sensor for the human blood pressure*, 25th IEEE International Semiconductor Conference, Location: Sinaia, Romania, Oct. 08-12 2002, pp. 67-70.

**BD.2.** Richard K. Stair, Gabriel A. Rincon-Mora. Circuit and method to facilitate threshold voltage extraction and facilitate operation of a capacitor multiplier, *United States Patent, no. US006806762B2*, Oct. 19 2004, vizibil pe GOOGLE SCH. at <http://www.google.ro/patents/US6806762> citeaza la I pagina, printre referintele utilizate si articolul: L. Dobrescu, M. Petrov, D. Dobrescu, **C. Ravariu**. *Threshold voltage extraction methods for MOS transistors*, ISI- IEEE Int. Conf. Proceedings, CAS, Romania, Sinaia, pp. 371-374, 2000.

## VIII. BREVETE DE INVENȚIE (B) SI ALTE TITLURI (A) DE PROPRIETATE INDUSTRIALĂ SI INTELECTUALĂ

**B.1. Cristian Ravariu.** Tranzistor cu efect de câmp de tip cavitare pe izolator și procedeul de realizare al acestuia, Brevet OSIM nr. A/01130 din 18.11.2010. A trecut toate etapele de examinare, apoi în Apr. 2013 a fost trimisă Hotărârea de acordare a brevetului, în Iun. 2013 au fost plătite toate taxele, iar în Sept. 2013 se așteaptă diploma brevet, inclus din Aug. 2013 in baza ISI cu Patent Number: RO126811-A0.

**Engl.** C. Ravariu, "Field effect transistors with a cavity on insulator, NOI and a-NOI," Romanian Patent Number: RO126811-A0, OSIM, Aug. 2013.

**B.2. Florin Babarada, Elena Manea, Cristian Ravariu.** Procedeul de fabricație pe siliciu a dispozitivelor pentru detecția și caracterizarea moleculelor biologice încărcate cu sarcină electrică; Brevet deținut de OSIM, cu nr. înregistrare A/01023 din 07.12.2009, a trecut de etapele de publicare, examinare, inclus din Aug. 2013 in baza ISI cu Patent Number: RO126615-A2 și Derwent Primary Accession Number: 2011-Q12664 [01] in baza ISI, cu Diploma de Brevet de invenție nr. 126615 din 27.11.2015, publicat in Buletinul oficial de proprietate industrială - secțiunea invenții nr. 11/2015 OSIM, Patent Number(s): RO126615-A2; RO126615-B1, Derwent Primary Accession Number: 2011-Q12664 [78]. Diploma de Brevet de invenție nr. 126615 din 27.11.2015, publicat in Buletinul oficial de proprietate industrială BOPI nr. 11 - secțiunea invenții nr. 11/2015 OSIM. la OSIM - BOPI 11, publ in 27/11/2015.

**Engl.** Florin Babarada, Elena Manea, **Cristian Ravariu**. Process for manufacturing, on silicon, the devices for detecting and characterizing the electrically charged biological molecules, Patent Number(s): RO126615-A2 ; RO126615-B1, 27 Nov 2015, OSIM Romanian agency.

**B.3. C. Ravariu,** Tranzistoare cu filme organice p/n suprapuse pentru aplicații biomimetice și industriale, Brevet deținut de OSIM, cu nr. înregistrare A/00021 din 12.01.2016, a trecut de etapele de publicare.

**En.** C. Ravariu: Transistors with p/n overlap films for biomimetic and industrial applications, Registered at OSIM Romanian Agency no. A/00021 from 12.01.2016, pass in second stage from Apr. 2016.

## IX. CONTRACTE CERCETARE

### Proiecte câștigate la care Cristian Ravariu a fost director de proiect, PD

**PD.1.** Contract nr. 6111/2000, Modelarea conducției prin tranzistoare SOI-MOSFET cu profile uniforme și neuniforme ale concentrației de impurități în film, *Grant T*, TEMA A.56, 2 ani, volum finanțare: 50 000 000 ROL, finanțatorul - A.N.S.T.I, derulare 2000-2001.

**PD.2.** Contract CNCSIS, Dispozitive MOS cu poartă mobilă pentru circuite de Telecomunicații, *Grant At* cu Tema nr. 21, cod 114, finanțator CNCSIS, volum finanțare 86 000 000 ROL, derulare 2002-2004.

**PD.3.** Contract CNCSIS, Sisteme de caracterizare electrică nedistructivă pentru materiale SOI nanostructurate, *Grant A*, Tema nr. 25, Cod 63, finanțator CNCSIS, volum finanțare: 98 900 RON, derulare 2006-2007.

**PD.4.** Contract nr. 12-095/ 01.10.2008, (BioFET), Tranzistoare BioFET pentru bioanalize personalizate și estimări funcționale celulare, Programul Proiecte Complexe *PNII Parteneriate*, comisia 1 (Tehnologia informației și comunicații), finanțator UEFISCDI, volum finanțare per proiect: 810 582 RON, Derulare: 01.10.2008 – 30.09.2011.

**PD.5.** Contract nr. 62-063/ 01.10.2008, (ElectroCel), Tehnologie neinvazivă de caracterizare funcțională a masei beta celulare cu biodispozitive electronice neconventionale, Programul Proiecte Complexe *PNII Parteneriate*, comisia 6 (Biotehnologii), finanțator UEFISCDI, volum finanțare per proiect: 803 149 RON, Derulare: 01.10.2008 – 30.09.2011.

#### **V. proiecte : PCE si PED.**

PD6. Cristian Ravariu - Director de Proiect, "Nano-tranzistoare cu filme subtiri implementate prin nanotehnologii si tehnologii organice la temperatura camerei", PROGRAMUL PNIII: P4 - Cercetare Fundamentala si de Frontiera, Proiecte de Cercetare Exploratorie - PCE, Acronim: TFTNANOEL, Contract: nr. 4/2017, Cod proiect la depunere: PN-III-P4-ID-PCE-2016-0480, inregistrat la UEFISCDI nr. 254/03.08.2017, nr. int. EL081702, suma angajata: 850.000Lei, derulare 17.iulie 2017-31 Dec. 2019.

PD.7. Cristian Ravariu - Director de Proiect, "Realizare demonstrator in tehnologia planara de tranzistor cu tunelare a izolatorilor ultrasubtiri - ca promotor al unei serii de nano-dispozitive si evidentierea utilitatii in industrie", PROGRAMUL PNIII: P2 - Cresterea competitivitatii economiei romanesti prin cercetare, dezvoltare si inovare, **TIP PROIECT:** Proiect Experimental-Demonstrativ - PED, **Acronim:** DEMOTUN, Contract: nr. 205PED/2017, Cod proiect la depunere: PN-III-P2-2.1-PED-2016-0427, inregistrat la UEFISCDI nr. PN3-P2-864/11.09.2017, nr. int. EL081704, suma angajata: 475.000Lei, derulare 17.08.2017-31 Dec. 2018.

#### **Proiecte POSDRU, PO**

**PO.1.** Proiectul *POSDRU/89/1.5/S/62557* - Domeniul Major de Interventie 1.5.: "*Programe Postdoctorale*" - Proiectul Excel - Excelență în cercetare prin programe postdoctorale în domenii prioritare ale societății bazate pe cunoaștere (EXCEL ID 62557), tema individuală: Structuri SOI generalizate pentru nanotranzistoare și biodispozitive, finanțator - Autoritatea de Management al Programului Sectorial Dezvoltarea Resurselor Umane AM POSDRU, Funcția - *Conf. dr. ing. Cristian Ravariu - Postdoctorand*, Domeniul Electronică și Telecomunicații, Derulare 15 iun. 2010 - 30 apr. 2013.

**PO.2.** Proiectul *POSDRU/87/1.3/S/61397* "Rețea Națională de Formare CONTinuă a CadrelOR Didactice din Învățământul Preuniversitar Profesional și Tehnic – CONCORD", Funcția *Conf. dr. ing. Cristian RAVARIU - Expert pe termen scurt* (3 luni / an) – Expert formare la Modulul 1 (Proelectric 1), la direcția Opțional 2, curs 3 Programul SPICE de simulare a circuitelor electronice. Derulare: 2011-2013.

#### **Proiecte internaționale ca participant, PI**



**PI.1.** Director contract: Adrian Rusu, participant: **C. Ravariu**, Modele avansate pentru tranzistoare bipolare și MOS submicronice, *Contract C.35 cu Banca Mondială*, București, România, derulare 1999-2002.

**PI.2.** Director contract: Adrian Rusu, participant: **C. Ravariu**, Dispozitive circuite și microsisteme electronice, *Contract D107 cu Banca Mondială*, București, România, derulare 1999-2001.

**PI.3.** Director contract: A. M. Ionescu (Swiss), participant: **C. Ravariu**, Low power electrostatic silicon on sapphire RF switches for telecom applications, Contract cod ESSOS, Wildhainweg 20 CH-3001. Proiect internațional finanțat *Swiss National Science Foundation*, Ecole Polytechnique Federale de Lausanne și Universitatea Politehnica București, România, derulare între 2000-2003.

### Proiecte Naționale ca participant, PP

**PP.1.** Contract nr. 32 – 158 / 01.10.2008, Tehnologii cu grad scăzut de poluare pentru obținerea celulelor fotovoltaice utilizând materiale oxidice nanostructurate, (NANOMATCELL), comisia 3 (mediu), Programul Proiecte Complexe *PNII Parteneriate*, Director : Elena Manea, C. Ravariu: participant, UPB – Partener P1, derulare 2008-2011.

**PP.2.** Contract nr. 12128 / 01.10.2008, Procese și dispozitive pe bază de straturi subțiri oxidice și polimerice pentru Electronică și OptoElectronică transparentă, (ELOTRANSP), comisia 1 (IT), Programul Proiecte Complexe *PNII Parteneriate*, Director: Purica Munizer, C. Ravariu: participant, UPB – Partener P1, derulare 2008-2011.

**PP.3.** Contract nr. 717 / Cod CNCSIS 449, O nouă categorie de dispozitive electronice și circuitele corespunzătoare, Programul *PN2 Idei*, finanțator CNCSIS, Director: A. Rusu, C. Ravariu - participant, derulare 2009-2011.

**PP.4.** Contract 75, ENIAC RTN-NANOEL, Technology Network for Romania integration in the NANOElectronics european platform, *CEEX Project*, Director Contract: Dan Dascalu, participant: C. Ravariu, finanțator ANCS, (IMT-coord., UPB-partener P1), derulare 2006-2009.

**PP.5.** Contract CEEX, IMT-coord., UPB-partener, Microstructuri de senzori și actuatori destinate micropoziționării și micromanipulării – mecanice și biologice - MEMSAS (Microgripper), *CEEX Project*, Director Contract: Raluca Muller, participant: C. Ravariu, derulare 2006-2008.

**PP.6.** Contract 167/2003, Studiul interacțiunii electro-mecanice în dispozitive funcționale MOS, *Grant al Academiei Române*, Director de contract: Dragos Dobrescu, participant C. Ravariu, proiect GAR 128/2003, contract cu UPB nr. 15.03. 08, București, derulare 2003-2004.

**PP.7.** Contract 40528/5.11.2003, Caracterizarea electrică avansată a dispozitivelor funcționale MOS, Director de contract: Dragos Dobrescu, participant - C. Ravariu, *Grant CNCSIS tip A*, cod 161, tema 25, contract cu UPB nr. 15.03. 10, București, derulare 2003-2004.

**PP.8.** Contract nr. 154/03.Aug.2005, Structuri super-panta pentru tehnologii nanometrice, *Grant al Academiei Române*, Director contract: L. Dobrescu, participant: C. Ravariu, cu 1 faza anuala, 2005.

**PP.9.** Contract nr. 1433/2004, Dispozitive novatoare în nanoelectronică, Director contract: A. Rusu, participant: C. Ravariu, *Grant tip A CNCSIS*, nr. 55, derulare pe 3 ani, 2004-2006.

**PP.10.** Contract cod CNCSIS 497, O nouă abordare teoretică și experimentală a fenomenelor de conducție electrică în dispozitive semiconductoare, Director contract: A. Rusu, participant: C. Ravariu, *Grant A* nr. 57, derulare pe 3 ani, 2002-2004.

## Lista completă de lucrări a Cristian RAVARIU

**PP.11.** Contract nr. 5076/1999, Tratarea fenomenologică a proceselor de conducție în electronică, pe baza teoremei de conducție electrică neliniară (Rusu), Director contract: Dragoș Dobrescu, participant: C. Ravariu, *Grant A.N.S.T.I.*, Tema A.62, derulare 1999-2000.

**PP.12.** Contract de cercetare IMT – MCT, Microtehnologii MOS utilizabile în realizarea structurilor de tranzistoare de putere și comutație de înaltă performanță, Director contract: Ovidiu Popa, participant: C. Ravariu, Tema A.12, finantator MCT, derulare 1997-1998.

**PP.13.** Contract de cercetare IMT – MCT, Caracterizarea dispozitivelor și proceselor tehnologice în fabricația de micro sisteme integrate, Director contract: Ovidiu Popa, participant: C. Ravariu, Tema B.1, participant la cele 5 faze ale temei, derulare pe 3 ani, 1994-1996.

**PP.14.** Contract de cercetare IMT - MCT, Contract nr.2220/1994, Tehnologii pentru micro sisteme, Director contract: Adriana Delibaltov, participant: C. Ravariu, Tema A.1, derulare 1994-1995.

**PP.15.** Contract Nr. 187/2012, New Innovative System for Radiation Safety of Patients Investigated by Radiological Imaging Methods, based on Smart Cards and PKI Infrastructures, SRSPIRIM, comisia 7, Proiect *PNII Parteneriate*, Director: Lidia Dobrescu. Participant: C. Ravariu, derulare 2012-2015, 4 ani, suma angajata total proiect 1 700 000RON, finantator UEFISCDI.

**PP16.** Contract 35 / 13.08.2014, EL081401. Comisie ICT. Finantator: UEFISCDI. PN2PTCCA2013-14. “Metoda de diagnostic diferențial al meningitelor prin determinarea profilului de citokine folosind un dispozitiv de măsurare rapidă la punctul de îngrijire (MEDICY)” – partener coordonator de proiect - Inst. Cantacuzino, director de partener UPB - Prof. Dr. Ing. Florin BABARADA, Participant Prof. Cristian Ravariu. Durata 1.10.2014-20.12.2016.

5. Proiect tip resurse umane la UEFISCDI, pentru premiarea rezultatelor cercetării, articol isi publicat in jurnal plasat in zona galbena, Cod provizoriu de inregistrare 2012-1674, Project Registration Code: PN-II-RU-PRECISI-2012-6-1177 din 09.10.2012, Cristian Ravariu and Florin Babarada, Modeling And Simulation Of Special Shaped Soi Materials For The Nanodevices Implementation, ISI Journal of Nanomaterials - Hindawi, July 2011, ISSN: 1687-4110, Factor Impact pe 2010 - 1.675, DOI:10.1155/2011/792759 , Article ID 792759, 11 pages, 2011. Premiat, in lista pe oct 2012: Linia 1170, cod PN-II-RU-PRECISI-2012-6-1177. Finantat cu 2000Lei in dec 2012.

27.02. 2020

Prof. dr. ing. Cristian Ravariu