



ROMÂNIA  
UNIVERSITATEA BABEȘ-BOLYAI CLUJ-NAPOCA

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RECTORATUL

## Universitatea Babeș-Bolyai Competiția Excelenței 2010

### Dosar Program de Studii

**Notă: Toate datele se referă la perioada 2005-2009**

#### A. Programul de studii

<b>Numele programului de studii</b>	<b>Școala doctorală a Facultății de Fizică</b>
<b>Tipul programului</b> (Licență/ Master/ Doctoral/ Post-Doctoral)	Doctoral
<b>Directorul/responsabilul programului</b> (nume, prenume, grad didactic)	Cozar Onuc, Prof.dr.
<b>Domeniul programului</b>	Fizică
<b>Adresa paginii web a programului</b>	<a href="http://www.phys.ubbcluj.ro">www.phys.ubbcluj.ro</a>
<b>Adresa e-mail a directorului</b>	onuc.cozar@phys.ubbcluj.ro

#### B. Obiectivele programului (maximum 1 pagina, în manieră cât mai accesibilă)

Școala doctorală a Facultății de Fizică pregătește specialiști, care să fie capabili să desfășoare cercetare științifică fundamentală și aplicativă în domeniul fizicii, să fie capabili să lucreze atât individual, cât și în grup, să aibă abilitățile de a conduce o echipă de cercetare. Misiunea școlii doctorale a Facultății de Fizică este de a pregăti cercetători calificați la nivel internațional în toate temele din domeniul fizică, în care Facultatea de Fizică excelează: studii de proprietăților structurale, electrice, magnetice și optice ale materialelor avansate, studii de spectroscopie de rezonanță magnetică, IR, Raman și spectrometrie de masă asupra unor sisteme de interes biomedical și de mediu, studii teoretice și computaționale asupra sistemelor complexe și altele.

În cadrul școlii doctorale a facultății de fizică sunt abordate teme de cercetare în concordanță cu politica de cercetare a universității Babeș-Bolyai, precum: studiul teoretic și computațional al unor sisteme complexe nanostructurate de interes biologic sau cu aplicații în tehnologii de conversie și stocare a energiei, aplicații ale polimerilor și a gelurilor polimerice în medicină, plasmă non-termice pentru tratamente neconvenționale, filme subțiri nanostructurate pentru celule solare, studiul efectelor radiațiilor ionizante și a agenților oxidanți asupra substanțelor biofarmaceutice și alimentare, sisteme compozite cu

**aplicații în ingineria țesuturilor, biomateriale nanostructurate pentru tratamente medicale, microsferă nanostructurate pentru încapsularea și cedarea controlată a medicamentelor, aerogeluri cu aplicații în tehnologii de depoluare a mediului, nanostructuri plasmonice și semiconductoare hibride pentru eficientizarea colectării luminii și a randamentului de fotoconversie în celule solare, studii structurale asupra unor sisteme moleculare de interes biomedical, noi materiale pentru dozimetria clinică, sisteme moleculare complexe pentru nanoelectronică.**

**Activitățile din cadrul școlii doctorale se concentrează pe:**

- asigurarea unei pregătiri teoretice și practice de nivel ridicat, care să permită absolvenților ocuparea unor posturi de vârf în viața academică, științifică sau economică;
- formarea la absolvenți a capacităților de comunicare de înalt nivel, atât în scris, cât și oral;
- formarea capacităților de analiză și de sinteză, a soluționării problemelor puse de fenomenele fizice în știință, tehnică și societate

**Instrumentele utilizate în atingerea obiectivelor:**

- cursuri de calitate, care să permită transferul eficient ale cunoștințelor fundamentale și a noutăților din domeniu;
- utilizarea computerelor pentru informare și documentare, pentru modelarea proceselor fizice și transferul cunoștințelor de fizică în alte domenii și din alte domenii în fizică;
- activități de cercetare științifică în laboratoare specializate;
- evidențierea rolului fizicii în dezvoltarea celor mai noi domenii de viitor legate de nanoștiințe și nanotehnologii;
- rezolvarea unor probleme concrete, puse de aplicațiile practice ale fenomenelor fizice;
- seminariile științifice unde sunt prezentate rezultatele originale ale cercetării proprii și noutăți în domeniu.

**Competențele prevăzute pentru absolvenții școlii doctorale sunt:**

- folosirea cunoștințelor și deprinderilor pentru a putea lucra în laboratoare din institute de cercetare sau întreprinderi, în servicii de prognoză și analiză a pieței financiare, în activități productive și de consultanță în domenii conexe;
- utilizarea abilităților de a lucra cu calculatorul pentru a soluționa probleme de fizică și de a se documenta în domeniile conexe fizicii;
- abordarea unor tematici interdisciplinare referitoare la integrarea cunoștințelor avansate de fizică în diferite domenii ale vieții sociale, dezvoltarea capacității de a lucra în echipă și abilității de a colabora cu specialiști din alte domenii.
- formarea capacităților de analiză și sinteză, a soluționării problemelor puse de fenomenele fizice în știință, tehnică și societate.
- controlul instalațiilor complexe pentru investigarea materiei
- dobândirea abilităților de documentare și raportare a cercetării într-o limbă de circulație internațională.

**C. Cadre didactice implicate în program și cursurile tinute în program:**

<b>Numele și prenumele, grad did.</b>	<b>Facultatea, Catedra</b>	<b>Cursuri</b>	<b>Semnătura</b>
Prof.dr. Anghel Sorin-Dan	Facultatea de Fizică, Catedra de Fizica Materialelor și a Tehnologiilor avansate	Complemente de fizica polimerilor și a plasmei	
Prof.dr. Ardelean Ioan	Facultatea de Fizică, Catedra de Fizica Materialelor și a Tehnologiilor avansate		
Prof.dr. Astilean Simion	Facultatea de Fizică, Catedra de Spectroscopie Moleculară	Nanostructuri	
Prof.dr. Beu Titus	Facultatea de Fizică, Catedra de Fizica Teoretică și Computațională	Metode de simulare în fizică	
Prof.dr. Burzo Emil	Facultatea de Fizică, Catedra de Fizica Materialelor și a Tehnologiilor avansate	Metode generale de cercetare și metodică elaborării de lucrări științifice	
Prof.dr. Chis Vasile	Facultatea de Fizică, Catedra de Fizica Biomedicală	Modele și metode teoretice în fizica stării condensate	
Prof.dr. Coldea Marin	Facultatea de Fizică, Catedra de Fizica Stării Condensate	Sisteme bidimensionale și interfețe	
Prof.dr. Crisan Mircea	Facultatea de Fizică, Catedra de Fizica Teoretică și Computațională	Metode generale de cercetare și metodică elaborării de lucrări științifice	
Prof.dr. Culea Monica	Facultatea de Fizică, Catedra de Fizica Biomedicală	Metode fizice în sisteme biomoleculare	
Prof.dr. Damian Grigore	Facultatea de Fizică, Catedra de Fizica Biomedicală	Metode fizice în sisteme biomoleculare	
Prof.dr. David Leontin	Facultatea de Fizică, Catedra de Fizica Biomedicală	Metode avansate în fizica atomică și nucleară	
Prof.dr. Cozar Onuc	Facultatea de Fizică, Catedra de Fizica Biomedicală	Modele și metode teoretice în fizica atomică și nucleară	
Prof.dr. Grosu Ioan	Facultatea de Fizică, Catedra de Fizica Teoretică și Computațională	Modele și metode teoretice în fizica stării condensate	
Prof.dr. Nagy Ladislau	Facultatea de Fizică, Catedra de Fizica Biomedicală	Modele și metode teoretice în fizica atomică și nucleară	
Prof.dr. Neda Zoltan	Facultatea de Fizică, Catedra de Fizica	Metode de simulare în fizică	

	Teoretică și Computațională		
Prof.dr. Pop Aurel	Facultatea de Fizică, Catedra de Fizica Stării Condensate	Sisteme bidimensionale și interfețe	
Prof.dr. Pop Viorel	Facultatea de Fizică, Catedra de Fizica Materialelor și a Tehnologiilor avansate	Nanostructuri	
Prof.dr. Simon Simion	Facultatea de Fizică, Catedra de Fizica Materialelor și a Tehnologiilor avansate	Metode avansate în studiul stării condensate	
Prof.dr. Simon Viorica	Facultatea de Fizică, Catedra de Fizica Biomedicală	Metode avansate în fizica atomică și nucleară	
Prof.dr. Tetean Romulus	Facultatea de Fizică, Catedra de Fizica Materialelor și a Tehnologiilor avansate	Metode avansate în studiul stării condensate	
Prof.dr. Todica Mihai	Facultatea de Fizică, Catedra de Fizica Materialelor și a Tehnologiilor avansate	Complemente de fizica polimerilor și a plasmei	
Prof. asociat dr. Eugen Culea	Universitatea Tehnică Cluj-Napoca		
Prof. asociat dr. Dan Demco	Universitatea Tehnică Cluj-Napoca		
Prof. asociat dr. Damaschin Ioanovici	Institutul National de Cercetare și Dezvoltare a Tehnologiilor Izotopice și Moleculare		
Prof. asociat dr. Vasile Morariu	Institutul National de Cercetare și Dezvoltare a Tehnologiilor Izotopice și Moleculare		
Prof. asociat dr. Nicolae Palibroda	Institutul National de Cercetare și Dezvoltare pentru Tehnologii Izotopice și Moleculare		

## **D. Studenți în program**

Numărul doctoranzilor înmatriculați în perioada 01.10.2005-01.10.2009 și lista tezelor susținute

	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010
<b>Nr. doctoranzi romani</b>	23	16	18	28	15
<b>Nr. doctoranzi internaționali</b>	1	0	0	0	1

<b>Nume, prenume doctorand</b>	<b>Titlul tezei</b>	<b>Anul susținerii</b>	<b>Conducător științific</b>
BERDEA I. Petru	Fracționări izotopice D/H ale apei la plante, în vitro	2005	PALIBRODA Nicolae
BOTA recăs. DOBRA căs. MORAR V. I. Mariana - Corina	Contribuții la studiul impurificării cu metale grele a stării condensate	2005	POP Iuliu
BOTH I. Stefan	New techniques to evaluate organ motion and dose distribution accuracy in radiotherapy	2005	COZAR Onuc
LUNG T. Teofil - Claudiu	Studiul proprietăților electrice și magnetice în supraconductorii cuprați pe bază de bismut	2005	ILONCA Gheorghe
SÁRKÓZI Ş. Susana	Proprietățile fizice ale unor aliaje pământ rar - metal de tranziție	2005	BURZO Emil
SBÂRCIOG I. Carmen - Daniela	Studiul unor proprietăți structurale, electrice și magnetice ale unor supraconductori de temperatură critică ridicată de tipul (1:2:3)	2005	POP Iuliu
ȘTIUFIUC C. Rareș - Ionuț	Proprietățile electrice și de pinning ale supraconductorilor de tip Bi:2212 dopați cu ioni ai metalelor de tranziție și conținând nanodefecțe artificiale	2005	ILONCA Gheorghe
TARȚA căs. ȘTIUFIUC G. Gabriela - Fabiola	Studiul fenomenelor de transport în prezența defectelor colonare introduse prin iradiere cu ioni grei și a substituțiilor atomice cu pământuri rare în supraconductorii de tip Bi:2212	2005	ILONCA Gheorghe
CĂCAINA N. Dana	Studiul unor materiale oxidice cu aplicații în medicină (STUDY OF SOME OXIDE MATERIALS WITH APPLICATIONS IN MEDICINE)	2006	SIMON Simion
DIMĂNCESCU (căs. RAITA) C. Laura - Oana	Dinamica de spin investigată prin RES în manganiți cu magnetorezistență colosală	2006	ILONCA Gheorghe
MUREȘAN N. Nicolae - Leontin	Studiul structurii și proprietăților fizice ale unor sticle pe bază de TeO <sub>2</sub> cu ioni ai elementelor de tranziție	2006	ARDELEAN Ioan
OPREA (căs. BÂNDILĂ) A. Laura - Maria	Analiza biomoleculilor prin spectrometrie de masă de înaltă rezoluție și tehnici aferente de separare (Biomolecule Analysis by High Restion Mass Spectrometry and Related Separation	2006	PALIBRODA Nicolae

	Tehniques)		
PELSHENKE Christian	Structural and physical properties of some compounds with transitional and rare earth ions	2006	COZAR Onuc
BEIUȘEANU F. Florian - Georgian	Studiul fenomenelor de transport și al proprietăților magnetice în compușii supraconductori Ru-12n2 (n=1, 2) dopați cu Sb	2007	ILONCA Gheorghe
BOGDAN V. Diana - Speranța	Complecși moleculari de incluziune (Molecular Inclusion Complexes)	2007	MORARIU Vasile
BORCA V. Bogdana - Lenuța	Studiul creșterii și al proprietăților magnetice în sistemele autoorganizate de nanofire de fier	2007	BURZO Emil
HAUER F. Eva - Elza	Studiul prin spectrometrie de masă al gazelor implicate în producerea efectului de seră (The Study by Mass Spectrometry of the Gases Implicated in the Green House Effect)	2007	COZAR Onuc
HOSSU E. Mihaela - Liliana	Investigații structurale ale unor heteropolioxometalați cu ioni tranziționali și actinide	2007	DAVID Leontin
JARAI-SZABO F. Ferenc	Calcularea secțiunilor eficace totale și diferențiale de ionizare pentru impact cu ioni rapizi (Calculations of Total and Differential Ionization Cross Sections for Fast Ion Impact)	2007	NAGY Ladislau
KOVACS Ș. Katalin	The Study of Magnetization Process Using Monte Carlo Methods (Studiul fenomenelor de magnetizare prin metode tip Monte-Carlo)	2007	NEDA Zoltan
LAZĂR (n. PĂCURARIU) I.M. Corina	Magnetismul metalelor de tranziție 3d în compuși ai pământurilor rare	2007	BURZO Emil
MUREȘAN M.Ș. Dorina - Lucia - Olimpia căs. BALASZ - MUREȘAN	Studiul unor biomateriale oxidice	2007	SIMON Simion
OANA Petru - Alexandru, nume schimbat în RIEDL Peter - Alexander	Contribuții la studiul unor ferite obținute prin cristalizarea dintr-o matrice oxidică vitroasă	2007	TĂTARU Emil
PÎRNĂU M. Adrian	Corelări teoretico - experimentale în analiza compușilor de interes biomedical	2007	COZAR Onuc
POP căs. MAGDAȘ I. Dana - Alina	Obținerea și caracterizarea structurală a unor noi materiale oxidice	2007	COZAR Onuc
POP T. Ana - Lidia	Studiul sturcturii și proprietăților fizice ale unor sticle pe bază de oxid de bismut cu ioni de pământuri rare (The Study of Structure and Physical Properties of some Bismuth Oxide Based Glasses with Rare Earth Ions)	2007	CULEA Eugen
SITAR (căs. PETRIȘOR) G.Dina - Mariana	Studiul radicalilor liberi din unele sisteme de interes biomedical	2007	SIMON Simion
TODERAȘ I.	Nanoparticule și nanostructuri de aur - sinteză,	2007	SIMON

Felicia	caracterizare și aplicații în detecția moleculară		Simion
TOMA V. Valentin	Anomalia proprietăților de transport în filme subțiri de Bi:22(n-1)n	2007	ILONCA Gheorghe
TURCU R. Romulus - Valeriu - Flaviu	Studii de rezonanță magnetică nucleară pe materiale policristaline	2007	SIMON Simion
UDVAR A. Alexandru - Dorin	Studiul unor materiale cu aplicații în optoelectronică (Study of some materials with applications in optoelectronics)	2007	SIMON Simion
VASILESCU C. Mihai	Studiul ordinii locale din compuși oxidici prin MAS-NMR	2007	SIMON Simion
VEDEANU C. Nicoleta - Simona	Structura locală și interacțiunea unor ioni tranziționali în matrici fosfatice cu aplicații optoelectronice	2007	COZAR Onuc
BALASZ căs. BALASZ- MUREȘAN Ș. István - Iózsef	Studiul proprietăților fizice ale unor materiale perovskitice	2008	BURZO Emil
CORA I. Simona - Florica	Studiul influenței matricii vitroase pe bază de Bi <sub>2</sub> O <sub>3</sub> asupra comportării ionilor de mangan și cupru	2008	ARDELEAN Ioan
COROIAN I.L. Natalia - Laura	Proprietăți structurale și magnetice ale compușilor pe bază de pământuri rare, cobalt și siliciu (Propriétés structurales et magnétiques des composés intermétalliques à base des terres rares, cobalt et silicium)	2008	POP Viorel
FARCĂU D.S. Cosmin - Adrian	Ordered Plasmonic Nanostructures: from Fabrication to Relevant Applications in Optical Spectroscopy and Sensing	2008	AȘTILEAN Simion
GRIGUȚA G. Lidia	Studiul stărilor locale și interacțiunilor ionilor de tranziție în matrici oxidice vitroase	2008	ARDELEAN Ioan
LUNGU G. Rareș - Adrian	Studiul proprietăților structurale și magnetice ale unor sticle pe bază de B <sub>2</sub> O <sub>3</sub> conținând ioni de fier.	2008	ARDELEAN Ioan
MAGYARI V. Klara - Dorottya	Studiul unor proteine retinale cu potențial de biosenzori	2008	SIMON Viorica
MARCONI D.I.Sorin - Daniel	Efectul substituțiilor atomice parțiale asupra proprietăților electrice și magnetice ale supraconductorilor oxidici	2008	POP Aurel
MARCU A. Anca - Oana	Investigații structurale ale unor complecși metalici cu liganzi de interes biologic	2008	DAVID Leontin
PĂCURARIU I.D. Roxana - Gabriela căs. DUDRIC	Structura electronică și proprietățile magnetice ale aliajelor și compușilor intermetalici pe bază de Mn cu Pd, Ni și Sb	2008	COLDEA Marin
POP V. Cristian - Vasile - Lucian	Dinamica fluctuațiilor radiației împrăștiată coerent pe suspensii celulare (Dynamics of Fluctuations of Coherent Light Scattered on Cellular Suspensions)	2008	MORARIU Vasile
RAVASZ I. Maria - Magdolna	Calculare cu computerul CNN în fizică	2008	NEDA Zoltan

căs. ERCSEY-RAVASZ			
RUSU A. Dorina	Studiul proprietăților structurale și magnetice ale sticlelor pe bază de Bi <sub>2</sub> O <sub>3</sub> conținând clusteri magnetici	2008	ARDELEAN Ioan
ZAINEA I. Oana - Corina	Proprietăți de corelare ale proteinelor și ADN-ului	2008	MORARIU Vasile
BALAS Gabriela	Efecte izotopice in ciclul global al carbonului	2008	COZAR Onuc
BICAZAN A. Mihaela-Oana (căs. STREZA)	Studiul unor sisteme condensate prin metode fototermice	2009	SIMON Viorica
CÂNPEAN V. Valentin-Nicolae	Preparation and characterization of some metallics and semiconductors nanoparticles for biomedical and technological applications	2009	AȘTILEAN Simion
IOSIN G. M. Monica - Olivia	Synthesis of Gold Nanoparticles and Fabrication of Protein Microstructures for Biological Applications	2009	AȘTILEAN Simion
LAZĂR I. Mihai Daniel	Studiul unor materiale biocompozite	2009	SIMON Simion
MATEI I. Iulian	Studiul supraconductorilor de tipul Bi:22(n-1)n dopați cu ioni ai pământurilor rare și ai metalelor de tranziție	2009	POP Aurel
SUMI Z. Robert-Zoltan	Theoretical and experimental study of phase in complex systems	2009	NEDA Zoltan
SZABO L. Laszlo	Studii spectroscopice și teoretice pe sisteme moleculare complexe de interes farmacologic și recunoaștere cationică	2009	COZAR Onuc
TODEA V. Milica	Studiul unor materiale silico-bismutate necristaline și policristaline	2009	SIMON Simion
TOTH L. Istvan-Ferenc	Ionizarea moleculelor prin impact cu pozitroni și electroni	2009	NAGY Ladislau
TRIPON M. Carmen	Tehnici noi în rezonanța magnetică nucleară pe solide: dezvoltări metodologice și aplicații pe compuși de interes biologic	2009	MORARIU Vasile
ȚUGULAN M. Carmen-Laura	Efecte de dezordine în sisteme unidimensionale și cuasi-unidimensionale	2009	GROSU Ioan

## **E. Realizări ale studenților din program**

### **1. Articole științifice indexate ISI**

1. Ercsey-Ravasz, M., Sárközi, Zs., Néda, Z., Tunyagi, A., Burda, I. Collective behavior of electronic fireflies (2008) European Physical Journal B, 65 (2), pp. 271-277.
2. Sárközi, Zs., Kertész, K., Koós, A.A., Osváth, Z., Tapasztó, L., Horváth, Z.E., Nemes-Incze, P., Jenei, I.Z., Vértesy, Z., Daróczi, N.S., Darabont, Al., Pana, O., Bjró, L.P. Synthesis of carbon nanotubes from liquid hydrocarbons using a spray-pyrolysis method (2008) Journal of Optoelectronics and Advanced Materials, 10 (9), pp. 2307-2310.
3. Nemes-Incze, P., Daróczi, N., Sárközi, Z., Koós, A.A., Kertész, K., Tiprigan, O., Horváth, Z.E., Darabont, A.L., Biró, L.P.



Synthesis of bamboo - Structured multiwalled carbon nanotubes by spray pyrolysis method, using a mixture of benzene and pyridine

(2007) *Journal of Optoelectronics and Advanced Materials*, 9 (5), pp. 1525-1529. Cited 2 times.

4. Tipriğan, O., Koós, A.A., Nemes-Incze, P., Horváth, Z.E., Sárközi, Zs., Simon, S., Darabont, Al., Biró, L.P.

Obtaining bamboo-structured, multiwalled carbon nanotubes using the spray pyrolysis method

(2007) *Journal of Optoelectronics and Advanced Materials*, 9 (3), pp. 617-620. Cited 1 time.

5. Horváth, Z.E., Kertész, K., Petho, L., Koós, A.A., Tapasztó, L., Vértesy, Z., Osváth, Z., Darabont, Al., Nemes-Incze, P., Sárközi, Zs., Biró, L.P.

Inexpensive, upscalable nanotube growth methods

(2006) *Current Applied Physics*, 6 (2), pp. 135-140. Cited 9 times.

6. Darabont, Al., Nemes-Incze, P., Kertész, K., Tapasztó, L., Koós, A.A., Osváth, Z., Sárközi, Zs., Vértesy, Z., Horváth, Z.E., Biró, L.P.

Synthesis of carbon nanotubes by spray pyrolysis and their investigation by electron microscopy

(2005) *Journal of Optoelectronics and Advanced Materials*, 7 (2), pp. 631-636. Cited 6 times.

7. Tapasztó, L., Kertész, K., Vértesy, Z., Horváth, Z.E., Koós, A.A., Osváth, Z., Sárközi, Zs., Darabont, Al., Biró, L.P.

Diameter and morphology dependence on experimental conditions of carbon nanotube arrays grown by spray pyrolysis

(2005) *Carbon*, 43 (5), pp. 970-977. Cited 26 times.

8. Horstick, G., Bierbach, B., Abegunewardene, N., Both, S., Kuhn, S., Manefeld, D., Reinecke, H.-J., Vosseler, M., Helisch, A., Becker, D., Lauterbach, M., Kempfski, O., Lehr, H.-A.

Critical single proximal left arterial descending coronary artery stenosis to mimic chronic myocardial ischemia: A new model induced by minimal invasive technology

(2009) *Journal of Vascular Research*, 46 (4), pp. 290-298.

9. Zhou, X., Both, S., Zhu, T.C.

Determination of correction factors for a 2D diode array device in MV photon beams

(2009) *Medical Physics*, 36 (2), pp. 523-529.

10. Both, S., Alecu, I.M., Stan, A.R., Alecu, M., Ciura, A., Hansen, J.M., Alecu, R.

A study to establish reasonable action limits for patient-specific quality assurance in intensity-modulated radiation therapy

(2007) *Journal of Applied Clinical Medical Physics*, 8 (2), pp. 1-8.

11. Pop, A.V., Lung, C., Radulescu, D., Pop, V.

Hysteresis curves of the flux motion in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-d</sub> thin films with nanoscale pinning centers

(2008) *Journal of Optoelectronics and Advanced Materials*, 10 (7), pp. 1869-1871.

12. Marconi, D., Matei, I., Manolache, S., Lung, C., Pop, A.V.

Study of localization processes in transport properties of Bi:2201 epitaxial thin film

(2008) *Journal of Optoelectronics and Advanced Materials*, 10 (4), pp. 926-928.

13. Ilonca, G., Patapis, S., Beiusan, F., Lung, C., Toma, V., Balint, P., Bodea, M., Jurcut, T.

Thermopower, Hall effect and magnetoresistivity of Ru<sub>1-x</sub>SbxSr<sub>2</sub>Sm<sub>1.5</sub>Ce<sub>0.5</sub>Cu<sub>2</sub>O<sub>10-d</sub>

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**2. Articole științifice indexate în BDI (din lista CNCSIS)**

**3. Alte articole științifice publicate în reviste/volume cu referenți (peer-reviewed)**

#### **4. Teze de doctorat publicate la edituri recunoscute**

4.1 Adrian Pîrnău, Corelări teoretico-experimentale în analiza unor compuși de interes biomedical, Editura Presa Universitară Clujeană, 2007, ISBN: 978-973-610-644-6

#### **5. Brevete naționale și internaționale**

#### **6. Realizări artistice naționale și internaționale (Domeniul Arte) (Expoziții, spectacole, concerte, publicații, filme, înregistrări)**

#### **7. Impactul în societate al lucrărilor produse**

#### **8. Absolvenți și angajați în poziții importante în instituții relevante**

- 8.1 dr. Rareș Știufiuc, lect.dr. la Universitatea de Medicină și Farmacie Iuliu Hațieganu, Cluj-Napoca; stagiul post-doc. la Univ. Lille, Franța
- 8.2 Dr. Cosmin Farcau, Post-doc 2009 și 2010 la Laboratoire CEMES, 29 rue Jeanne Marvig, 31055 Toulouse, France
- 8.3 dr. Adrian Pîrnău, cercetător la INCDTIM, Cluj-Napoca
- 8.4 dr. Nicoleta Vedeanu, lect.dr. la Universitatea de Medicină și Farmacie Iuliu Hațieganu, Cluj-Napoca
- 8.5 dr. Alina Magdaș, cercetător la INCDTIM, Cluj-Napoca
- 8.6 dr. Mihaela Hossu, CS în departamentul Fizica Biomoleculară, INCDTIM Cluj-Napoca.
- 8.7 dr. Streza Mihaela, cercetător la INCDTIM, Cluj-Napoca
- 8.8 Marconi Daniel, cercetător UBB
- 8.9 Matei Iulian- Cercetător la Institutul Louis Neel Grenoble-Franța.
- 8.10 Maria-Ercsey Ravasz, post-doc la Notre Dame University, USA
- 8.11. Robert Zoltan Sumi, Post-doc la BME-Budapesta, Ungaria
- 8.12 Katalin Kovacs, cercetător la ITIM, Cluj
- 8.13 Pacurariu Roxana- Postdoc Univ. Babes-Bolyai, Fac. Fizica
- 8.14. Rednic Vasile - cercetător INCDTIM Cluj-Napoca
- 8.15 Both Stefan, Department of Radiation Oncology, University of Pennsylvania, USA
- 8.16 Andreea Iordache, șef de Laborator de analize de mediu și alimente la Institutul National de Cercetare-Dezvoltare pentru Criogenie și Separări Izotopice
- 8.17 Streza Mihaela, cercetător la INCDTIM Cluj-Napoca
- 8.18 Calborean Adrian, post-doc la Ecole Normale Superior, Paris, Franța
- 8.19 Christian Pelshenke, cercetător la Institutul pentru Controlul Calității pentru Construcții de Mașini, Remscheid, Germania

#### **F. Se atașează dosarul individual pentru fiecare cadru didactic implicat în program**

Data:

Semnătura directorului

15.03.2010

**Certific validitatea datelor prezentate:**

Decan,