

**RAPORT DE AUTOEVALUARE**  
**perioada 1 Noiembrie 2002 – 30 Octombrie 2007**

1. **Datele de autentificare ale unității de cercetare-dezvoltare**
  - 1.1.1. Denumirea: **Institutul Național de Cercetare-Dezvoltare pentru Fizică Tehnică – IFT Iași**
  - 1.2. Statutul juridic:  
Forma de organizare: **Institut național de cercetare-dezvoltare**  
Persoana juridică: **persoană juridică română**
  - 1.3. Actul de înființare:  
**Hotărârea Guvernului nr. 1311 din 25 noiembrie 1996, publicată în Monitorul Oficial al României, Partea I, Nr. 330 din 9 decembrie 1996**
  - 1.4. Numărul de înregistrare în Registrul potențialilor contractori:  
**Număr de utilizator: 1817**
  - 1.5. Director general: **Prof. Dr. Horia CHIRIAC**
  - 1.6. Adresa:  
**Bulevardul D. Mangeron nr. 47, C.P. 833, O.P. 3, IAȘI, cod poștal 700050**
  - 1.7. Telefon, fax, pagină web, e-mail:  
**Tel.: 0232 430 680 / Fax: 0232 231132**  
<http://www.phys-iasi.ro> / e-mail: [hchiriac@phys-iasi.ro](mailto:hchiriac@phys-iasi.ro)
  
2. **Domeniul de specialitate**
  - 2.1.1. Conform clasificării UNESCO:  
**Coduri UNESCO: 22 – Fizică; 33 – Științe tehnologice**
  - 2.1.2. Conform clasificării CAEN:  
**Cod CAEN: 7310 – Cercetare-dezvoltare în științe fizice și naturale**
  
3. **Starea unității de cercetare-dezvoltare**
  - 3.1. Misiunea unității de cercetare-dezvoltare, direcțiile de cercetare, dezvoltare, inovare (maximum 1.000 de caractere):  

Misiunea INCDFT-IFT Iași - dezvoltarea de cercetări fundamentale și aplicative de excelență în domeniul magnetismului și materialelor magnetice, inclusiv aplicații multidisciplinare, prin; 1) efectuarea de cercetări în domeniul fizicii aplicațiilor (noi proprietăți, fenomene și efecte magnetice); 2) dezvoltarea de studii și cercetări științifice și tehnologice în domenii conexe magnetismului și materialelor magnetice; 3) dezvoltarea de acțiuni de pregătire a viitorilor specialiști prin activități specifice, în vederea promovării excelenței științifice la nivel de personal.

Direcții de CDI: 1) dezvoltarea de **materiale magnetice avansate** cu proprietăți și structuri speciale (cristaline, amorfe, nanocristaline, nanostructurate, nanocompozite, nanodimensionate); 2) **aplicații pe bază de materiale avansate** (senzori / biosenzori, traductori, actuatori, sisteme de măsură); 3) **aplicații pe bază de noi fenomene magnetice** (tehnici de control nedistructiv, magnetometrie, separare magnetică, etc.).
  - 3.2. Modul de valorificare a rezultatelor de cercetare, dezvoltare, inovare și gradul de recunoaștere a acestora (maximum 1.000 de caractere):

Rezultatele de CDI au fost valorificate prin **publicarea** în reviste științifice cotate ISI (**203** articole în perioada nov. 2002-oct. 2007); **comunicarea** la manifestări științifice naționale/internaționale (**400** lucrări); **brevetarea** rezultatelor activităților de cercetare (**3** brevete naționale și 1 internațional), din care **2** medaliatate cu aur și **2** cu argint la Saloane Internaționale/Naționale ale Invențiilor; **concesionarea bevetelor de invenție** (**3** brevete internaționale concesionate unei companii din SUA).

Calitatea activităților de cercetare S&T este recunoscută prin **178** citări în reviste de specialitate; coordonare/participare la peste **94** proiecte PNCDI I, PN II, Program CEEEX, Granturi; participare în **4** proiecte PC 6; **4** proiecte bilaterale (parteneri din Italia, Grecia, Elveția, Ungaria); livrări de materiale și produse 'high-tech' la parteneri din străinătate; organizarea a 4 ediții ale **workshop-ului internațional bienal ANMM (2001-2007)** și a ediției a 5-a a **workshop-ului EDNANO 2007**.

### 3.3. Situația financiară — datorii la bugetul de stat:

Conform Balanței de verificare la 30.09.2007 – **117.901 lei** obligații aferente salariilor pentru luna septembrie 2007

- **2.615 lei** TVA + impozit pe profit în trimestrul III/2007,

datorii care au fost achitate la data de 25.10.2007.

## 4. Criterii primare de performanță

punctaj

- 4.1. Lucrări științifice/tehnice publicate în reviste de specialitate cotate ISI
- 4.1.1. Număr de lucrări științifice  $203 \times 30 = 6.090$
- 4.1.2. Punctaj cumulată ISI  $211,2 \times 5 = 1.056$
- 4.1.3. Număr de citări în reviste de specialitate cotate ISI  $178 \times 5 = 890$   
(Lista lucrărilor și citărilor, grupate pe ani, se atașează ca **Anexa 4.1**)

**Total punctaj 4.1: 8.036**

- 4.2. Brevete de invenție
- 4.2.1. Număr de brevete  $4 \times 30 = 120$
- 4.2.2. Număr de citări de brevete în sistemul ISI  $0 \times 5 = 0$   
(Lista brevetelor și citărilor, grupate pe ani, se atașează ca **Anexa 4.2**)

**Total punctaj 4.2: 120**

- 4.3. Produse și tehnologii rezultate din activități de cercetare, bazate pe brevete, omologări sau inovații proprii. Studii prospective și tehnologice și servicii rezultate din activitatea de cercetare-dezvoltare, comandate de beneficiar  
(Se indică contractul și firma care utilizează produsul, serviciul și tehnologia).

- 4.3.1. Număr de produse, tehnologii, studii, servicii  $26 \times 20 = 520$   
(Lista produselor, serviciilor și tehnologiilor, grupate pe ani, se atașează ca **Anexa 4.3**)

**Total punctaj 4.3: 520**

**Total punctaj Cap. 4: 8.676**

## 5. Criterii secundare de performanță

- 5.1. Lucrări științifice (tehnice) publicate în reviste de specialitate fără cotație ISI
- 5.1.1. Număr de lucrări  $107 \times 5 = 535$   
(Lista lucrărilor grupate pe ani se atașează ca **Anexa 5.1**)

**Total punctaj 5.1: 535**

- 5.2. Lucrări științifice prezentate la conferințe internaționale cu comitet de program
- 5.2.1. Număr de comunicări prezentate  $400 \times 5 = 2.000$   
(Lista comunicărilor grupate pe ani se atașează ca **Anexa 5.2**)

**Total punctaj 5.2: 2.000**

- 5.3. Modele fizice, modele experimentale, modele funcționale, prototipuri, normative, proceduri, metodologii, reglementări și planuri tehnice noi sau perfecționate, realizate în cadrul programelor naționale sau comandate de beneficiar:

- 5.3.1. Număr de modele, normative, proceduri etc.:  $200 \times 5 = 1.000$   
(Lista modelelor, normativelor etc., grupate pe ani, se atașează ca **Anexa 5.3**)

**Total punctaj 5.3: 1.000**

**Total punctaj Cap. 5: 3.535**

## 6. Prestigiul profesional

- 6.1. Membri (incluzând statutul de recenzor) în colectivele de redacție ale unor reviste (cotate ISI sau incluse în baze de date internaționale) sau în colective editoriale ale unor edituri internaționale recunoscute

Număr de prezențe în perioada pentru care se face evaluarea:  $2 \times 20 = 40$

Nr. crt.	Nume	Titlul revistei/editurii
1.	Prof. Dr. Horia Chiriac	Optoelectronics and Advanced Materials –Rapid Communications / INOE National Institute for Optoelectronics and National Institute of Materials Physics
2.	Prof. Dr. Raimond Grimberg	Insight / The Journal of the British Institute of Non- Destructive Testing

- 6.2. Membri în colectivele de redacție ale revistelor recunoscute național (din categoria B în clasificarea CNCISIS)

Număr de prezențe:  $0 \times 10 = 0$

- 6.3. Premii internaționale obținute printr-un proces de selecție

Număr de premii:  $0 \times 20 = 0$

- 6.4. Premii naționale ale Academiei Române:

Număr de premii:  $0 \times 20 = 0$

- 6.5. Conducători de doctorat, membri ai unității de cercetare

Număr de conducători de doctorat:  $2 \times 10 = 20$

Nr. Crt.	Nume
1.	Prof. Dr. Horia CHIRIAC
2.	Prof. Dr. Nicolae REZLESCU

- 6.6. Număr de doctori în știință, membri ai unității de cercetare

Număr de doctori în știință: **19**  $19 \times 10 = 190$

**Total punctaj Cap. 6: 250**

**TOTAL PUNCTAJ CAP. 4-6: 12.461**

## 7. Venituri realizate prin contracte de cercetare:

(în domeniul pentru care se face evaluarea și în perioada pentru care se face evaluarea)

- 7.1. Numărul și valoarea contractelor de cercetare internaționale finanțate din fonduri publice: **6 contracte / 201.260,20 EURO (Anexa 7.1)**

Tip Program	Număr total contracte / Valoare totală (EURO)	Număr contracte / Valoare contracte (EURO), defalcate pe ani				
		2003	2004	2005	2006	2007
PC 6	4/186481,00	0/0	2/45520	3/74000	4/47890	3/19071
Alte contracte internaționale	2/14779,20	1/2001	1/1658,8	1/0	1/695	1/10424
<b>TOTAL</b>	<b>6/201.260,2</b>	<b>1/2.001</b>	<b>3/47.178,8</b>	<b>4/74.000</b>	<b>5/48.585</b>	<b>4/29.495</b>

- 7.2. Numărul și valoarea contractelor de cercetare internaționale finanțate din fonduri private: **20 contracte / 176.195,00 EURO**

Număr total contracte / Valoare totală (EURO)	Număr contracte / Valoare contracte (EURO), defalcate pe ani				
	2003	2004	2005	2006	2007
<b>20/176.195,00</b>	<b>4/24.980,00</b>	<b>4/23.755,00</b>	<b>7/71.321,00</b>	<b>4/37.068,00</b>	<b>1/85.441,00</b>

7.3. Numărul și valoarea contractelor de cercetare naționale finanțate din fonduri publice:  
**113 contracte / 23.808.898 lei (Anexa 7.3)**

Tipuri de Programe	Număr total contracte / Valoare totală (lei)	Număr contracte / Valoare contracte (lei), defalcate pe ani				
		2003	2004	2005	2006	2007
<b>PNCDI</b>	<b>40</b> 3.257.445	<b>29</b> 732.579	<b>28</b> 1.092.476	<b>21</b> 975.790	<b>10</b> 456.600	<b>0</b> 0
<b>PLAN SECTORIAL</b>	<b>2</b> 50.000	<b>0</b> 0	<b>0</b> 0	<b>2</b> 50.000	<b>0</b> 0	<b>0</b> 0
<b>CEEX</b>	<b>37</b> 11.942.104	<b>0</b> 0	<b>0</b> 0	<b>14</b> 1.845.986	<b>33</b> 4.318.626	<b>37</b> 5.777.492
<b>Granturi</b>	<b>8</b> 544.884	<b>1</b> 5.900	<b>3</b> 32.500	<b>4</b> 89.000	<b>5</b> 155.600	<b>5</b> 261.884
<b>PN II</b>	<b>5</b> 838.400	<b>0</b> 0	<b>0</b> 0	<b>0</b> 0	<b>0</b> 0	<b>5</b> 838.400
<b>Programe Nucleu</b>	<b>2/21 teme</b> 7.176.065	1/12 teme 602.949	1/12 teme 749.200	1/12 teme 875.100	1/9 teme 1.800.000	1/9 teme 3.148.816
<b>Total</b>	<b>94</b> <b>23.808.898</b>	<b>31</b> <b>1.341.428</b>	<b>32</b> <b>1.874.176</b>	<b>42</b> <b>3.835.876</b>	<b>49</b> <b>6.730.826</b>	<b>48</b> <b>10.026.592</b>

7.4. Numărul și valoarea contractelor de cercetare naționale finanțate din fonduri private:  
**1 Contract C-D nr. 17.782/10.05.2005**

"Servicii de cercetare aplicativă, consultanță privind examinări nedistructive cât și avizarea /analiza procedurilor de lucru", între INCDFT-IFT Iași și CNE-PROD Cernavodă

**Valoare: 29.635 lei**

7.5. Alte surse:

7.5 bis. Venituri realizate din activități economice (servicii, microproducție):

**21.897 EURO + 55.575 lei**

Număr total contracte / Valoare totală (EURO + Lei)	Număr contracte / Valoare contracte (EURO + Lei), defalcate pe ani				
	2003	2004	2005	2006	2007
<b>4 internaționale</b> <b>45 naționale</b>	1 internațional 13 naționale	1 internațional 8 naționale	6 naționale	13 naționale	2 internaționale 5 naționale
<b>21.897 EURO</b> <b>55.575 Lei</b>	950 Euro 10.058 Lei	2.327 Euro 6.914 Lei	15.807 Lei	12.028 Lei	18.620 Euro 10.768 Lei

8. **Resursa umană de cercetare** (situația va fi prezentată pe ani)

8.1. Total personal de cercetare care realizează venituri din activitatea de cercetare-dezvoltare, din care doctori în știință:

**Total personal de cercetare = 60 persoane / 19 doctori în știință**

**Număr mediu personal de cercetare atestat: 28**

**7 absolvenți de masterat**

**Total = 35 persoane**

2003	2004	2005	2006	2007
<b>52</b>	<b>53</b>	<b>63</b>	<b>68</b>	<b>66</b>

8.1.1. Cercetători științifici gradul 1, din care doctori în știință:

2003	2004	2005	2006	2007
<b>8/8</b>	<b>9/9</b>	<b>8/8</b>	<b>8/8</b>	<b>7/7</b>

8.1.2. Cercetători științifici gradul 2, din care doctori în știință:

2003	2004	2005	2006	2007
<b>5/5</b>	<b>4/4</b>	<b>6/6</b>	<b>8/8</b>	<b>8/8</b>

8.1.3. Cercetători științifici gradul 3, din care doctori în știință:

2003	2004	2005	2006	2007
<b>12/5</b>	<b>11/5</b>	<b>10/5</b>	<b>9/5</b>	<b>10/4</b>

8.1.4. Cercetători științifici, din care doctori în știință:

2003	2004	2005	2006	2007
<b>2/0</b>	<b>3/0</b>	<b>3/0</b>	<b>3/0</b>	<b>5/1</b>

8.1.5. Asistenți de cercetare / Absolvenți de Doctorat-D sau Masterat-M:

2003	2004	2005	2006	2007
8/5M	11/5M	16/7M	20/8M	16/8M

8.1.6. Total personal auxiliar de cercetare angajat:

2003	2004	2005	2006	2007
17	15	20	20	20

8.2. Date privind perfecționarea resursei umane

8.2.1. Număr de doctoranzi și masteranzi care lucrează în unitatea de cercetare-dezvoltare la data completării formularului: **14 (11 doctoranzi și 3 masteranzi)**

8.2.2. Număr de teze de doctorat realizate în unitatea de cercetare-dezvoltare în perioada pentru care se face evaluarea: **9**

## 9. Infrastructura de cercetare-dezvoltare

9.1. Laboratoare de cercetare-dezvoltare:

	Denumirea laboratorului	Domeniul în care este acreditat
1.	Secția de cercetare pentru materiale și dispozitive magnetice - MDM	Materiale cu structuri și proprietăți fizice noi; Dispozitive, aparate și echipamente bazate pe acestea
2.	Laborator Control Nedistructiv	Metode și tehnici de control nedistructiv
3.	Colectiv cercetare oxizi și separare magnetică	Metode de separare electrică și magnetică a materialelor; Materiale oxidice
4.	Colectiv cercetare – Fizică Computațională	Metode computaționale de modelare a materialelor supraconductoare și nanostructurate
5.	Laborator de încercări (analize) pentru materiale și dispozitive magnetice LIAMDM	Încercări și analize pentru materiale și dispozitive magnetice
6.	Laborator de metrologie LM-IM	Inducție magnetică
7.	Laborator de difractometrie	Analize structurale prin difracție de raze X

9.2. Lista echipamentelor performante achiziționate în ultimii 10 ani:

Nr. crt.	Echipamentul	Anul fabricației	Valoarea (lei)	Sursa de finanțare a investiției
1.	Microscop electronic JEOL JSM 6390 A cu modul de nanolitografiere Xenos XPG2	2007	1.564.543	Fond special investiții și Program Capacități-PN II
2.	Instalație complexă de depuneri straturi subțiri cu sistem de pulverizare în vid înalt ATC-2200V / AJA International, Inc.	2007	1.065.115	Contracte cercetare
3.	Instalație preparare azot lichid	2006	123.793	Contracte cercetare
4.	Moară planetară cu bile RETSCH PM 200 (incinte și bile de oțel cu Cr, W și agat) și Mașină de sitat RETSCH AS 200	2006	63.226	Contracte cercetare
5.	Analizor de impedanță AGILENT 4395 A	2006	130.033	Contracte cercetare
6.	Analizor de rețea AGILENT PNA – LN 5230	2006	477.350	Contracte cercetare și Fond special investiții
7.	Echipament pentru studiul caracteristicilor dinamice în senzori magnetici	2006	110.198	Contracte cercetare și Fond special investiții
8.	Echipament pentru producerea, măsurarea și controlul vidului	2006	231.600	Contracte cercetare și Fond special investiții
9.	Echipament pentru prepararea prin metode chimice a eșantioanelor	2006	92.220	Contracte cercetare și Fond special investiții

10.	Histerezisgraf HyMAC cu accesorii	2006	188.100	Contracte cercetare și Fond special investiții
11.	Instalație pentru analiza suprafețelor CHEMBET TPR/TPD cu accesorii	2006	127.820	Contracte cercetare și Fond special investiții
12.	Biopotențostat/Galvanostat PG 340	2006	118.964	Contracte cercetare și Fond special investiții
13.	Microscop AXIO IMAGER A1m pentru lumină transmisă și reflectată cu polarizare	2006	130.360	Contracte cercetare
14.	Spectrometru în infraroșu FT-IR JASCO FT/IR 6100 cu transformată Fourier	2006	110.574	Contracte cercetare
15.	Spectrofotometru de absorbție atomică PERKIN-ELMER ANALIST 200	2006	123.407	Contracte cercetare
16.	Magnetometru cu probă vibrantă LakeShore Model VSM 7410	2006	993.591	Contracte cercetare și Fond special investiții
17.	Difractometru BRUCKER AXS D8-Advance cu accesorii	2005	462.032	Contracte cercetare
18.	Spectrofotometru UV-VIS Perkin-Elmer Lambda 35	2005	59.675	Contracte cercetare
19.	Aparat pentru măsurarea dimensiunii particulelor MICROTRAC-NANOTRAC 250	2005	119.558	Contracte cercetare
20.	Impedanțmetru RF / Analizor de material Agilent E4991A (1 MHz - 3 GHz)	2005	192.541	Contracte cercetare
21.	Potențostat Voltalab 10	2005	34.944	Contracte cercetare
22.	Microscop de forță atomică QUESANT Q-SCOPE 250, cu mod de scanare magnetică	2004	181.034	Fond special investiții Contract de cercetare (Centru de excelență - Contract nr. 1024/2001)
23.	Analizor de precizie pentru impedanță Agilent 4294A (40 Hz - 110 MHz)	2003	111.023	Fond special investiții Contract de cercetare (Centru de excelență - Contract nr. 1024/2001)
24.	Echipament pentru producerea firelor amorfe prin răcire rapidă din topitură în strat de apă în rotație	2003	120.546	Autodotare
25.	Microscop electronic cu scanare - TESLA BS 343 A	2003	112.629	Contracte cercetare și Fond special investiții
26.	Calorimetru diferențial (DSC) SETARAM LABSYS	2002	70.784	Contracte cercetare și Fond special investiții
27.	Analizor SR 760 Amplificator LOCK-in SR 830	2001	34.990	Contracte cercetare și Fond special investiții
28.	Moară cu bile SPEX	1998	12.018	Fond special

				investiții
29.	Generator de medie frecvență (pentru încălzire prin inducție)	1998	24.144	Contracte cercetare și Fond special investiții
30.	Generator de medie frecvență + anexe	1997	15.761	Contracte cercetare și Fond special investiții

Director general al INCDFI-IFT Iași  
Prof. Dr. Horia CHIRIAC

Contabil șef  
Ec. Maria POPESCU

#### **ANEXA 4.1.**

##### **Lista lucrarilor stiintifice/tehnice publicate in reviste de specialitate cotate ISI si a citarilor (in rosu)**

- Conform bazei de date Institute of Scientific Information
- Autocitarile nu au fost luate in calculul numarului total de citari

##### **4.1.1. Numar de lucrari stiintifice cotate ISI**

<b>Anul</b>	<b>Numar lucrari</b>
2002	2
2003	29
2004	44
2005	41
2006	46
2007	41
<b>Total lucrari</b>	<b>203</b>
<b>Puctaj cumulat</b>	<b><math>203 \times 30 = 6090</math></b>



#### 4.1.2. Punctaj cumulativ ISI

- Pentru anul 2007 s-au utilizat factorii de impact din 2006

Publicatia cotata ISI	2007	2006	2005	2004	2003	2002
<b>Nr. Lucrari x Punctaj revista</b>						
ACTA MATERIALIA			1×3,430 <b>3,430</b>			
ADV ENG MATER	2×1,402 <b>2,804</b>					
APPL PHYS A-MATER						1×2,231 <b>2,231</b>
BIORHEOLOGY				1×1,882 <b>1,882</b>		
CERAM INT				1×1,040 <b>1,040</b>	1×0,704 <b>0,704</b>	
CHAOS SOLITON FRACT	1×2,042 <b>2,042</b>				3×1,064 <b>3,192</b>	
CRYST RES TECHNOL		1×863 <b>0,863</b>		1×0,770 <b>0,770</b>		
ELECTROCHIM ACTA			1×2,453 <b>2,453</b>			
IEEE T MAGN	2×0,938 <b>1,876</b>	2×0,938 <b>1,876</b>	1×1,041 <b>1,041</b>	1×0,837 <b>0,837</b>	2×1,006 <b>2,012</b>	
INT J APPL ELECTROM	1×0,262 <b>0,262</b>					
INT J ENVIRON HEAL R		1×0,621 <b>0,621</b>	1×0,422 <b>0,422</b>			
NT J FOOD MICROBIOL			1×2,499 <b>2,499</b>			
INT J MATER PROD TEC		4×0,291 <b>1,164</b>				
J ALLOY COMPD				1×1,562 <b>1,562</b>		
J APPL PHYS	3×2,316 <b>6,948</b>	1×2,316 <b>2,316</b>				
J ELECTROCHEM SOC		1×2,387 <b>2,387</b>				
J MAGN MAGN MATER	9×1,212 <b>10,908</b>		10×0,985 <b>9,850</b>	9×1,031 <b>9,279</b>	7×0,91 <b>6,37</b>	
J MATER PROCESS TECH	1×0,615 <b>0,615</b>					
J OPTOELECTRON ADV M	15×1,106 <b>16,590</b>	19×1,106 <b>19,908</b>	7×1,138 <b>7,966</b>	12×1,003 <b>12,036</b>	5×0,996 <b>4,98</b>	
J PHYS D APPL PHYS	1×2,077 <b>2,077</b>		1×1,957 <b>1,957</b>			
J PHYS-CONDENS MAT		1×2,038 <b>2,038</b>				
J SERB CHEM SOC				1×0,522 <b>0,522</b>		
JPN J APPL PHYS				1×1,142 <b>1,142</b>		
MAT SCI ENG A-STRUCT				5×1,107 <b>5,535</b>		
NDT&E INT		1×1,097 <b>1,097</b>				
OPT MATER		1×1,709 <b>1,709</b>				
PHYS MED BIOL		1×2,837 <b>2,837</b>	1×2,683 <b>2,683</b>	1×2,368 <b>2,368</b>		
PHYS STATUS SOLIDI A		2×1,221 <b>2,442</b>	1×1,041 <b>1,041</b>	1×0,860 <b>0,860</b>		
PHYSICA C					1×1,192 <b>1,192</b>	

POWDER TECHNOL					$1 \times 0,951$ <b>0,951</b>	
RES NONDESTRUCT EVAL			$2 \times 0,333$ <b>0,666</b>			
REV CHIM-BUCHAREST				$2 \times 0,308$ <b>0,616</b>		
REV ROUM CHIM		$1 \times 0,208$ <b>0,208</b>	$1 \times 0,226$ <b>0,226</b>	$1 \times 0,199$ <b>0,199</b>		$1 \times 0,192$ <b>0,192</b>
SCRIPTA MATER				$1 \times 2,112$ <b>2,112</b>		
SENS LETT	$7 \times 0,632$ <b>4,424</b>					
SENSOR ACTUAT A-PHYS		$6 \times 1,434$ <b>8,604</b>	$1 \times 1,363$ <b>1,363</b>	$1 \times 1,462$ <b>1,462</b>	$6 \times 1,422$ <b>8,532</b>	
SENSOR ACTUAT B-CHEM		$2 \times 2,331$ <b>4,662</b>				
<b>Total pe ani</b>	<b>48,546</b>	<b>53,874</b>	<b>35,617</b>	<b>42,222</b>	<b>28,515</b>	<b>2,432</b>
<b>Total punctaj</b>						
				$211,206 \times 5 = 1056,03$		

**4.1.3. Numar de citari in reviste cotate ISI**

<b>Anul</b>	<b>Numar citari</b>
2002	1
2003	44
2004	57
2005	65
2006	11
2007	-
<b>Total citari</b>	<b>178</b>
<b>Puctaj cumulat</b>	<b>178×5 = 890</b>

## Anul 2002

- 2 lucrari

- 1 citare

1. Title: [Structural and magnetic disorder in Nd90-xFexAl10 glassy hard magnets](#)  
Author(s): Lupu, N; Delaplane, R; McGreevy, RL, et al.  
Source: **APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING** Volume: **74**  
Pages: **S680-S682** Part: **1** Supplement: **S** Published: **DEC 2002**  
Times Cited: **2**
  1. Title: Thermal stability and magnetic properties of Fe-Nd-Al amorphous alloys  
Author(s): Chen D, Takeuchi A, Inoue A  
Source: **MATERIALS TRANSACTIONS** Volume: **46** Issue: **12** Pages: **2844-2847** Published: **DEC 2005**
  2. Title: Nanoclusters-critical thickness-magnetic properties relationship in Nd90-xFexAl10 amorphous ribbons  
Author(s): Lupu N, Chiriac H, Takeuchi A, et al.  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **272**  
Pages: **E1137-E1139** Supplement: **Suppl. 1** Published: **MAY 2004**  
**AUTOCITARE**
2. Title: [Photochemical degradation of polymers containing urethane groups, in the solid phase. Influence of p-block cations on the degradation](#)  
Author(s): Jordan, AR; Palamaru, MN; Ciobanu, C, et al.  
Source: **REVUE ROUMAINE DE CHIMIE** Volume: **47** Issue: **10-11** Pages: **1137-1146** Published: **OCT-NOV 2002**  
Times Cited: **0**

## Anul 2003

- 29 lucrari

- 44 citari

1. Title: [Saturation magnetostriction of Co-rich glass-covered amorphous wires](#)  
Author(s): Neagu, M; Chiriac, H; Vazquez, M, et al.  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **254**  
Special Issue: **SI** Pages: **472-474** Published: **JAN 2003**  
Article No.: **PII S0304-8853(02)00872-7** Article No.: **PII S0304-8853(02)00872-7**  
Times Cited: **0**
2. Title: [FMR investigation of surface anisotropy in twisted amorphous wires](#)  
Author(s): Chiriac, H; Fecioru, AM; Ovari, TA  
Source: **SENSORS AND ACTUATORS A-PHYSICAL** Volume: **106** Issue: **1-3**  
Pages: **251-254** Published: **SEP 15 2003**  
Times Cited: **0**
3. Title: [Consistency between morphology and magnetization data in studying the effect of production parameters in Nd90-xFexAl10 \(x=35-50\) melt spun ribbons](#)  
Author(s): Ausanio, G; Chiriac, H; Iannotti, V, et al.  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **265**  
Issue: **2** Pages: **138-141** Published: **SEP 2003**  
Times Cited: **3**
  1. Title: [Nd60Fe30-xNixAl10 bulk metallic glasses with high hard magnetic properties](#)  
Author(s): Xia MX, Meng QG, Zhang SG, et al.  
Source: **MATERIALS LETTERS** Volume: **61** Issue: **1** Pages: **219-222**  
Published: **JAN 2007**
  2. Title: [Micromagnetic model for magnetisation processes in RE-TM based-amorphous alloys](#)  
Author(s): Stoleriu L, Cimpoesu D, Stancu A, et al.  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **272**  
Pages: **E1113-E1114** Supplement: **Suppl. 1** Published: **MAY 2004**  
**AUTOCITARE**
  3. Title: [Simulation of magnetic properties versus temperature for RE-TM based amorphous alloys](#)  
Author(s): Cimpoesu D, Stoleriu L, Stancu A, et al.  
Source: **IEEE TRANSACTIONS ON MAGNETICS** Volume: **40** Issue: **4** Pages: **2730-2732** Part: **Part 2** Published: **JUL 2004**  
**AUTOCITARE**
4. Title: [Preparation and magnetic properties of Ni80Fe20 nanowire arrays](#)  
Author(s): Chiriac, H; Ovari, TA; Moga, AE, et al.  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **5** Issue: **1** Pages: **257-260** Published: **MAR 2003**  
Times Cited: **0**
- Title: [Mechanical behavior of nanocrystalline Fe-Hf-B ribbons](#)
  5. Author(s): Chiriac, H; Hison, C  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **254**  
Special Issue: **SI** Pages: **475-476** Published: **JAN 2003**  
Article No.: **PII S0304-8853(02)00871-5** Article No.: **PII S0304-8853(02)00871-5**  
Times Cited: **3**
    1. Title: [The structure and mechanical properties of amorphous and nanocrystalline Fe-Si-B alloys](#)  
Author(s): Sypien A, Kusinski J

Source: **JOURNAL OF MICROSCOPY-OXFORD** Volume: **224** Pages: **111-113**  
Part: **Part 1** Published: **OCT 2006**

2. Title: Nanocrystalline Fe<sub>87</sub>Zr<sub>7</sub>Al<sub>2</sub>B<sub>3</sub>Cu<sub>1</sub> ribbons  
Author(s): Hison CL, Chiriac H, Lupu N, et al.  
Source: **SENSORS AND ACTUATORS A-PHYSICAL** Volume: **129** Issue: **1-2**  
Special Issue: **Sp. Iss. SI** Pages: **45-49** Published: **MAY 24 2006**  
**AUTOCITARE**
3. Title: Influence of structure on the evolution of magnetic and mechanical properties of amorphous and nanocrystalline Fe<sub>85.4</sub>Hf<sub>1.4</sub>B<sub>13.2</sub> alloy  
Author(s): Szewieczek D, Lesz S  
Source: **JOURNAL OF MATERIALS PROCESSING TECHNOLOGY** Volume: **162**  
Special Issue: **Sp. Iss. SI** Pages: **254-259** Published: **MAY 15 2005**  
**AUTOCITARE**
6. Title: [Giant magnetoimpedance in glass-covered amorphous microwires](#)  
Author(s): Kraus, L; Frait, Z; Pirota, KR, et al.  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **254**  
Special Issue: **SI** Pages: **399-403** Published: **JAN 2003**  
Article No.: **PII S0304-8853(02)00931-9** Article No.: **PII S0304-8853(02)00931-9**  
Times Cited: **8**
  1. Title: Giant magnetoimpedance effect in a glass-coated microwire LC-resonator for high-frequency sensitive magnetic sensor applications  
Author(s): Le AT, Cho WS, Lee H, et al.  
Source: **JOURNAL OF ALLOYS AND COMPOUNDS** Volume: **443** Issue: **1-2**  
Pages: **32-36** Published: **SEP 27 2007**
  2. Title: Very large magnetoimpedance effect in a glass-coated microwire LC-resonator  
Author(s): Le AT, Kim CO, Phan MH, et al.  
Source: **PHYSICA B-CONDENSED MATTER** Volume: **395** Issue: **1-2** Pages: **88-92** Published: **MAY 31 2007**
  3. Title: Effect of glass removal on the GMI effect of Co<sub>71.8</sub>Fe<sub>4.9</sub>Nb<sub>0.8</sub>Si<sub>7.5</sub>B<sub>15</sub> amorphous glass-covered wires  
Author(s): Chen Z, Ba S, Li DR, et al.  
Source: **RARE METALS** Volume: **25** Special Issue: **Sp. Iss. SI** Pages: **633-636** Published: **OCT 2006**
  4. Title: GMI effect in amorphous glass covered microwires as a function of the internal induced stresses  
Author(s): Chiriac H, Goian V, Corodeanu S  
Source: **IEEE TRANSACTIONS ON MAGNETICS** Volume: **42** Issue: **10** Pages: **3359-3361** Published: **OCT 2006**  
**AUTOCITARE**
  5. Title: Study of magnetoimpedance effect in Co-Fe-Si-B glass-covered microwires  
Author(s): Kane SN, Alves F, Gercsi Z, et al.  
Source: **SENSORS AND ACTUATORS A-PHYSICAL** Volume: **129** Issue: **1-2**  
Special Issue: **Sp. Iss. SI** Pages: **216-219** Published: **MAY 24 2006**  
**AUTOCITARE**
  6. Title: Asymmetric impedance in field-annealed Co-based amorphous wires and its bias field dependence  
Author(s): Duque JGS, De Araujo AEP, Knobel A  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **299** Issue: **2** Pages: **419-424** Published: **APR 2006**
  7. Title: Magnetic and mechanical properties of magnetic glass-coated microwires with

- different glass coating.  
Author(s): Zhukova V, Zhukov A, Larin V, et al.  
Source: **CROSS-DISCIPLINARY APPLIED RESEARCH IN MATERIALS SCIENCE AND TECHNOLOGY** Volume: **480** Pages: **293-297** Published: **2005**
8. Title: The effect of helical magnetoelastic anisotropy on magnetoimpedance and its second harmonic component in amorphous wires  
Author(s): Duque JGS, Gomez-Polo C, Yelon A, et al.  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **271** Issue: **2-3** Pages: **390-395** Published: **MAY 2004**
7. Title: [Design and preparation of new Fe-based bulk amorphous alloys torroids](#)  
Author(s): Chiriac, H; Lupu, N; Tibu, M  
Source: **IEEE TRANSACTIONS ON MAGNETICS** Volume: **39** Issue: **5** Pages: **3040-3042** Part: **2** Published: **SEP 2003**  
Times Cited: **6**
1. Title: Magnetic properties of bulk metallic glasses  
Author(s): Tiberto P, Baricco M, Olivetti E, et al.  
Source: **ADVANCED ENGINEERING MATERIALS** Volume: **9** Issue: **6** Pages: **468-474** Published: **JUN 2007**
2. Title: Ductile Fe-based bulk metallic glass with good soft-magnetic properties  
Author(s): Zhang T, Liu FJ, Pang SJ, et al.  
Source: **MATERIALS TRANSACTIONS** Volume: **48** Issue: **5** Pages: **1157-1160** Published: **MAY 2007**
3. Title: Corrosion behaviour of [(Fe<sub>0.6</sub>Co<sub>0.4</sub>)(<sub>0.75</sub>)B<sub>0.2</sub>Si<sub>0.05</sub>](<sub>96</sub>)Nb-4 bulk glassy alloy in sulphuric acid solutions  
Author(s): Long ZL, Shen BL, Shao Y, et al.  
Source: **MATERIALS TRANSACTIONS** Volume: **47** Issue: **10** Pages: **2566-2570** Published: **OCT 2006**
4. Title: New FeNbB-based bulk amorphous and nanocomposite soft magnetic alloys  
Author(s): Chiriac H, Lupu N  
Source: **IEEE TRANSACTIONS ON MAGNETICS** Volume: **41** Issue: **10** Pages: **3289-3291** Published: **OCT 2005**  
**AUTOCITARE**
5. Title: (Fe,Co,Ni)-B-Si-Nb bulk glassy alloy with super-high strength and some ductility  
Author(s): Shen BL, Inoue A  
Source: **JOURNAL OF MATERIALS RESEARCH** Volume: **20** Issue: **1** Pages: **1-5** Published: **JAN 2005**
6. Title: Superhigh strength and good soft-magnetic properties of (Fe, Co)-B-Si-Nb bulk glassy alloys with high glass-forming ability  
Author(s): Shen BL, Inoue A, Chang CT  
Source: **APPLIED PHYSICS LETTERS** Volume: **85** Issue: **21** Pages: **4911-4913** Published: **NOV 22 2004**
8. Title: [Preparation and magnetic properties of electrodeposited magnetic nanowires](#)  
Author(s): Chiriac, H; Moga, AE; Urse, M, et al.  
Source: **SENSORS AND ACTUATORS A-PHYSICAL** Volume: **106** Issue: **1-3** Pages: **348-351** Published: **SEP 15 2003**  
Times Cited: **7**
1. Title: Fabrication and magnetic properties of Co/Cu multilayer nanowire arrays  
Author(s): Yao SW, Song ZX, Wang HZ  
Source: **ACTA PHYSICO-CHIMICA SINICA** Volume: **23** Issue: **8** Pages: **1306-**

**1310** Published: **AUG 2007**

2. Title: Fabrication of metal nano-structures using anodic alumina membranes grown in phosphoric acid solution: Tailoring template morphology  
Author(s): Inguanta R, Butera M, Sunseri C, et al.  
Source: **APPLIED SURFACE SCIENCE** Volume: **253** Issue: **12** Pages: **5447-5456** Published: **APR 15 2007**
  3. Title: Preparation of Pd-coated anodic alumina membranes for gas separation media  
Author(s): Inguanta R, Amodeo M, D'Agostino F, et al.  
Source: **JOURNAL OF THE ELECTROCHEMICAL SOCIETY** Volume: **154** Issue: **3** Pages: **D188-D194** Published: **2007**
  4. Title: Preparation of mesoporous silica templated metal nanowire films on foamed nickel substrates  
Author(s): Campbell R, Bakker MG, Havrilla G, et al.  
Source: **MICROPOROUS AND MESOPOROUS MATERIALS** Volume: **97** Issue: **1-3** Pages: **114-121** Published: **DEC 29 2006**
  5. Title: Preparation and magnetic properties of nickel nanorods by thermal decomposition reducing methods  
Author(s): Luo Y, Zhang JC, Shen Y, et al.  
Source: **TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA** Volume: **16** Special Issue: **Part A Sp. Iss. 1** Pages: **S96-S100** Part: **Part A Sp. Iss. 1** Published: **JUN 2006**
  6. Title: Magnetic properties of electrodeposited CoFeB thin films and nanowire arrays  
Author(s): Ciureanu M, Beron F, Clime L, et al.  
Source: **ELECTROCHIMICA ACTA** Volume: **50** Issue: **22** Pages: **4487-4497** Published: **AUG 10 2005**
  7. Title: Preparation and magnetic properties of amorphous NiP and CoP nanowire arrays  
Author(s): Chiriac H, Moga AE, Urse M, et al.  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **272** Special Issue: **Part 3 Sp. Iss. SI** Pages: **1678-1680** Part: **Part 3 Sp. Iss. SI** Published: **MAY 2004**
- AUTOCITARE**
9. Title: [Effect of thermal treatments on the magnetic inhomogeneities distribution in magnetic amorphous wires and microwires](#)  
Author(s): Chiriac, H; Lupu, N  
Source: **IEEE TRANSACTIONS ON MAGNETICS** Volume: **39** Issue: **5** Pages: **3043-3045** Part: **2** Published: **SEP 2003**  
Times Cited: **0**
  10. Title: [Galvanomagnetic and magnetoelastic behaviour of amorphous and nanocrystalline FeMCuNbSiB \(M = Cr, Co\) ribbons](#)  
Author(s): Neagu, M; Chiriac, H; Lozovan, M  
Source: **SENSORS AND ACTUATORS A-PHYSICAL** Volume: **106** Issue: **1-3** Pages: **73-75** Published: **SEP 15 2003**  
Times Cited: **2**
    1. Title: Hall and giant magnetoimpedance effects in the Co<sub>70</sub>Fe<sub>5</sub>Si<sub>15</sub>B<sub>10</sub> metallic glass  
Author(s): Goncalves LAP, Soares JM, Machado FLA, et al.  
Source: **JOURNAL OF NON-CRYSTALLINE SOLIDS** Volume: **352** Issue: **32-35** Pages: **3659-3662** Published: **SEP 15 2006**
    2. Title: The Hall effect in Co<sub>72</sub>Fe<sub>2</sub>B<sub>17</sub>Si<sub>5</sub>Mn<sub>4</sub> amorphous ribbons  
Author(s): Lozovan M, Neagu M, Hison C  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS**



- 11.** Title: [High-frequency magnetic aftereffect in Co-based amorphous wires and ribbons](#)  
Author(s): Allia, P; Coisson, M; Tiberto, P, et al.  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **254**  
Special Issue: **SI** Pages: **207-209** Published: **JAN 2003**  
Article No.: **PII S0304-8853(02)00764-3** Article No.: **PII S0304-8853(02)00764-3**  
Times Cited: **0**
- 12.** Title: [Correlation between magnetoelastic resonance and ac field-induced rotation of magnetostrictive amorphous wire](#)  
Author(s): Ovari, TA; Tibu, M; Chiriac, H  
Source: **SENSORS AND ACTUATORS A-PHYSICAL** Volume: **106** Issue: **1-3**  
Pages: **267-269** Published: **SEP 15 2003**  
Times Cited: **1**

  - 1.** Title: [Microstructural characterization of cylindrical Fe<sub>1-x</sub>Nix thin films](#)  
Author(s): Giouroudi I, Ktena A, Hristoforou E  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS**  
Volume: **6** Issue: **2** Pages: **661-666** Published: **JUN 2004**
- 13.** Title: [Stress and temperature effect on the FMR response of nearly zero magnetostrictive amorphous microwires](#)  
Author(s): Tufescu, FM; Ovari, TA; Chiriac, H, et al.  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **5** Issue: **1** Pages: **273-277** Published: **MAR 2003**  
Times Cited: **0**
- 14.** Title: [Magnetoelastic anisotropy of amorphous microwires](#)  
Author(s): Chiriac, H; Ovari, TA; Zhukov, A  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **254**  
Special Issue: **SI** Pages: **469-471** Published: **JAN 2003**  
Article No.: **PII S0304-8853(02)00875-2** Article No.: **PII S0304-8853(02)00875-2**  
Times Cited: **2**

  - 1.** Title: [Study of CoFeSiB glass-covered amorphous microwires under applied stress](#)  
Author(s): Carara M, Sossmeier KD, Viegas ADC, et al.  
Source: **JOURNAL OF APPLIED PHYSICS** Volume: **98** Issue: **3** Article Number: **033902** Published: **AUG 1 2005**
  - 2.** Title: [Domain structure in Joule-heated CoFeSiB glass-covered amorphous microwires probed by magnetoimpedance and ferromagnetic resonance](#)  
Author(s): da Silva RB, Carara M, de Andrade AMH, et al.  
Source: **JOURNAL OF APPLIED PHYSICS** Volume: **94** Issue: **7** Pages: **4539-4543** Published: **OCT 1 2003**
- 15.** Title: [Magnetic field and displacement sensor based on linear transformer with amorphous wire core](#)  
Author(s): Chiriac, C; Chiriac, H  
Source: **SENSORS AND ACTUATORS A-PHYSICAL** Volume: **106** Issue: **1-3**  
Pages: **172-173** Published: **SEP 15 2003**  
Times Cited: **0**
- 16.** Title: [Sonochemical enhancement of cyanide ion degradation from wastewater in the presence of hydrogen peroxide](#)  
Author(s): Iordache, I; Nechita, MT; Aelenei, N, et al.  
Source: **POLISH JOURNAL OF ENVIRONMENTAL STUDIES** Volume: **12** Issue: **6**

Pages: **735-737** Published: **2003**  
Times Cited: **0**

17. Title: [An electrosmog-meter - Envirometer](#)  
Author(s): Ioan, C; Munteanu, V; Macovei, C, et al.  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **4** Issue: **2** Pages: **325-328** Published: **JUN 2002**  
Times Cited: **1**
  1. Title: Pressure sensing using magnetostrictive delay lines  
Author(s): Bargiotas D, Karagiannis V, Manassis C  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS**  
Volume: **6** Issue: **2** Pages: **685-688** Published: **JUN 2004**
  
18. Title: [Large gyromagnetic effect in as-cast and post-production treated amorphous wires](#)  
Author(s): Meydan, T; Borza, F; Derebasi, N  
Source: **SENSORS AND ACTUATORS A-PHYSICAL** Volume: **106** Issue: **1-3**  
Pages: **278-281** Published: **SEP 15 2003**  
Times Cited: **2**
  1. Title: Giant magneto-impedance effect in As-cast and post-production treated Fe<sub>77.5</sub>Si<sub>7.5</sub>B<sub>15</sub> amorphous wires  
Author(s): Caylak O, Derebasi N, Meydan T  
Source: **SENSOR LETTERS** Volume: **5** Issue: **1** Pages: **123-125** Published: **MAR 2007**
  2. Title: Mechanical torque in the ac field induced rotation of amorphous wires  
Author(s): Borza F, Ovari TA, Meydan T  
Source: **SENSORS AND ACTUATORS A-PHYSICAL** Volume: **129** Issue: **1-2**  
Special Issue: **Sp. Iss. SI** Pages: **224-226** Published: **MAY 24 2006**  
**AUTOCITARE**
  
19. Title: [The disperse analysis of clinoptilolitic volcanic tuff and the fractions characterization. I. The disperse analysis](#)  
Author(s): Vuza, A; Odochian, L; Dumitras, M, et al.  
Source: **REVISTA DE CHIMIE** Volume: **54** Issue: **8** Pages: **704-706** Published: **AUG 2003**  
Times Cited: **1**
  1. Title: The disperse analysis of clinoptilolitic volcanic tuff. II. Fractions characterisation  
Author(s): Vuza A, Craus ML, Odochian L, et al.  
Source: **REVISTA DE CHIMIE** Volume: **55** Issue: **5** Pages: **313-316**  
Published: **MAY 2004**  
**AUTOCITARE**
  
20. Title: [The influence of the sintering conditionis on the transport properties of La<sub>0.44</sub>Ho<sub>0.11</sub>Sr<sub>0.45</sub>MnO<sub>3</sub>-delta and Nd<sub>0.44</sub>Ho<sub>0.11</sub>Sr<sub>0.45</sub>MnO<sub>3</sub>-delta compounds](#)  
Author(s): Craus, ML; Cornei, N; Mita, C, et al.  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **5** Issue: **4** Pages: **963-969** Published: **DEC 2003**  
Times Cited: **0**
  
21. Title: [The influence of synthesis methods on the structure of perovskite compounds of Sr<sub>x</sub>Ca<sub>1-x</sub>CeO<sub>3</sub> type](#)  
Author(s): Cornei, N; Berdan, I; Craus, ML, et al.  
Source: **REVISTA DE CHIMIE** Volume: **54** Issue: **11** Pages: **871-873** Published: **NOV 2003**  
Times Cited: **0**
  
22. Title: [On some mixed oxides in the system CaO-CdO-Bi<sub>2</sub>O<sub>3</sub>-Nb<sub>2</sub>O<sub>5</sub>, cation distribution in a distorted Aurivillius structure](#)

Author(s): Craus, ML; Rusu, I; Rusu, A  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume:  
**5** Issue: **3** Pages: **653-656** Published: **SEP 2003**  
Times Cited: **3**

**1.** Title: Preparation and IR-spectroscopic characterization of Cd<sub>2</sub>InNbO<sub>6</sub> perovskite oxide  
Author(s): Rusu I, Craus ML  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS**  
Volume: **9** Issue: **7** Pages: **2279-2282** Published: **JUL 2007**  
**AUTOCITARE**

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Author(s): Xue DS, Fu JL, Shi HG  
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Author(s): Yavari, AR; Le Moulec, A; Inoue, A, et al.

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Author(s): Jiang QK, Zhang GQ, Yang L, et al.

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Author(s): Khonik SV, Sviridov VV, Kobelev NP, et al.

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Author(s): Na YS, Lee JH  
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Author(s): Louzguine-Luzgin DV, Inoue A  
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Author(s): Bhowmick R, Raghavan R, Chattopadhyay K, et al.  
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Author(s): Fukuhara M, Inoue A, Nishiyama N  
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Source: **NDT & E INTERNATIONAL** Volume: **40** Issue: **4** Pages: **275-283**  
Published: **JUN 2007**
  3. Title: [Research on edge identification of a defect using pulsed eddy current based on principal component analysis](#)  
Author(s): Yang BF, Luo FL, Han D  
Source: **NDT & E INTERNATIONAL** Volume: **40** Issue: **4** Pages: **294-299**  
Published: **JUN 2007**
29. Title: [Nondestructive examination of fuel channels in PHWR nuclear power plants](#)  
Author(s): Savin, A; Udpa, L; Steigmann, R, et al.  
Source: **INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY**  
Volume: **27** Issue: **3-4** Pages: **198-209** Published: **2006**  
Times Cited: **0**
30. Title: [Inverse problem for electromagnetic field diffraction on ideal cracks of electric conductive materials](#)  
Author(s): Grimberg, R; Savin, A; Steigmann, R  
Source: **INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY**

Volume: **26** Issue: **1-2** Pages: **187-197** Published: **2006**  
Times Cited: **0**

31. Title: [Eddy current examination of carbon fibres in carbon-epoxy composites and Kevlar](#)  
Author(s): Grimberg, R; Savin, A; Steigmann, R, et al.  
Source: **INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY**  
Volume: **27** Issue: **3-4** Pages: **221-228** Published: **2006**  
Times Cited: **0**
32. Title: [Eddy current inner transducer with rotating magnetic field: Application to PHWRs pressure tubes](#)  
Author(s): Grimberg, R; Savin, A; Steigmann, R  
Source: **INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY**  
Volume: **26** Issue: **1-2** Pages: **177-186** Published: **2006**  
Times Cited: **0**
33. Title: [An in vitro study of magnetic particle targeting in small blood vessels](#)  
Author(s): Udrea, LE; Strachan, NJC; Badescu, V, et al.  
Source: **PHYSICS IN MEDICINE AND BIOLOGY** Volume: **51** Issue: **19** Pages: **4869-4881** Published: **OCT 7 2006**  
Times Cited: **0**
34. Title: [Measuring the transmittivity of light: A tool for testing the quality of magnetic liquids](#)  
Author(s): Fosa, G; Badescu, R; Calugaru, G, et al.  
Source: **OPTICAL MATERIALS** Volume: **28** Issue: **4** Pages: **461-465** Published: **MAR 2006**  
Times Cited: **0**
35. Title: [Studies of magnetic carrier particles capture for blood vessel embolization](#)  
Author(s): Rotariu, O; Udrea, LE; Strachan, NJC, et al.  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **8** Issue: **5** Pages: **1758-1760** Published: **OCT 2006**  
Times Cited: **0**
36. Title: [Ecotoxicological screening of Kenyan tannery dust using a luminescent-based bacterial biosensor](#)  
Author(s): Mwinyihija, M; Strachan, NJC; Rotariu, O, et al.  
Source: **INTERNATIONAL JOURNAL OF ENVIRONMENTAL HEALTH RESEARCH**  
Volume: **16** Issue: **1** Pages: **47-58** Published: **FEB 2006**  
Times Cited: **0**
37. Title: [Fine-grained erbium-doped strontium hexaferrite](#)  
Author(s): Rezlescu, N; Doroftei, C; Rezlescu, E, et al.  
Source: **PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE**  
Volume: **203** Issue: **15** Pages: **3844-3851** Published: **DEC 2006**  
Times Cited: **0**
38. Title: [Heat-treatment influence on the microstructure and magnetic properties of rare-earth substituted SrFe<sub>12</sub>O<sub>19</sub>](#)  
Author(s): Doroftei, C; Rezlescu, E; Popa, PD, et al.  
Source: **CRYSTAL RESEARCH AND TECHNOLOGY** Volume: **41** Issue: **11** Pages: **1112-1119** Published: **NOV 2006**  
Times Cited: **0**
39. Title: [The influence of the technological factors on strontium hexaferrites with lanthanum substitution prepared by self-combustion method](#)  
Author(s): Doroftei, C; Rezlescu, E; Popa, PD, et al.  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **8** Issue: **3** Pages: **1023-1027** Published: **JUN 2006**  
Times Cited: **0**

40. Title: [Influence of copper ions on the structure and electromagnetic properties of MgZn ferrite](#)  
 Author(s): Rezlescu, E; Sachelarie, L; Rezlescu, N  
 Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **8** Issue: **3** Pages: **1019-1022** Published: **JUN 2006**  
 Times Cited: **0**
41. Title: [The magnetic oxide semiconducting ceramics as gas sensor](#)  
 Author(s): Iftimie, N; Rezlescu, E; Popa, PD, et al.  
 Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **8** Issue: **3** Pages: **1001-1003** Published: **JUN 2006**  
 Times Cited: **0**
42. Title: [Gas sensitivity of nanocrystalline nickel ferrite](#)  
 Author(s): Iftimie, N; Rezlescu, E; Popa, PD, et al.  
 Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **8** Issue: **3** Pages: **1016-1018** Published: **JUN 2006**  
 Times Cited: **0**
43. Title: [Structure and humidity sensitive electrical properties of the Sn<sup>4+</sup> and/or Mo<sup>6+</sup> substituted Mg ferrite](#)  
 Author(s): Rezlescu, N; Doroftei, C; Rezlescu, E, et al.  
 Source: **SENSORS AND ACTUATORS B-CHEMICAL** Volume: **115** Issue: **2** Pages: **589-595** Published: **JUN 26 2006**  
 Times Cited: **1**
1. Title: [Fast humidity sensors based on CeO<sub>2</sub> nanowires](#)  
 Author(s): Fu XQ, Wang C, Yu HC, et al.  
 Source: **NANOTECHNOLOGY** Volume: **18** Issue: **14** Article Number: **145503**  
 Published: **APR 11 2007**
44. Title: [Microstructure and humidity sensitive properties of MgFe<sub>2</sub>O<sub>4</sub> ferrite with Sn and Mo substitutions prepared by selfcombustion method](#)  
 Author(s): Doroftei, C; Rezlescu, E; Rezlescu, N, et al.  
 Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **8** Issue: **3** Pages: **1012-1015** Published: **JUN 2006**  
 Times Cited: **0**
45. Title: [Semiconducting gas sensor for acetone based on the fine grained nickel ferrite](#)  
 Author(s): Rezlescu, N; Iftimie, N; Rezlescu, E, et al.  
 Source: **SENSORS AND ACTUATORS B-CHEMICAL** Volume: **114** Issue: **1** Pages: **427-432** Published: **MAR 30 2006**  
 Times Cited: **3**
1. Title: [A room temperature liquefied petroleum gas sensor based on all-electrodeposited n-CdSe/p-polyaniline junction](#)  
 Author(s): Joshi SS, Lokhande CD, Han SH  
 Source: **SENSORS AND ACTUATORS B-CHEMICAL** Volume: **123** Issue: **1**  
 Pages: **240-245** Published: **APR 10 2007**
2. Title: [Microwave dielectric properties of NiFe<sub>2</sub>O<sub>4</sub> nanoparticles ferrites](#)  
 Author(s): Rubinger CPL, Gouveia DX, Nunes JF, et al.  
 Source: **MICROWAVE AND OPTICAL TECHNOLOGY LETTERS** Volume: **49**  
 Issue: **6** Pages: **1341-1343** Published: **JUN 2007**
3. Title: [Nanocrystalline nickel ferrite, NiFe<sub>2</sub>O<sub>4</sub>: Mechanosynthesis, nonequilibrium cation distribution, canted spin arrangement, and magnetic behavior](#)  
 Author(s): Sepelak V, Bergmann I, Feldhoff A, et al.  
 Source: **JOURNAL OF PHYSICAL CHEMISTRY C** Volume: **111** Issue: **13**  
 Pages: **5026-5033** Published: **APR 5 2007**

46. Title: [The influence of Sn 4+and/or Mo6+ions on the structure, electrical and gas sensing properties of Mg-ferrite](#)  
Author(s): Rezlescu, N; Doroftei, C; Rezlescu, E, et al.  
Source: **PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE**  
Volume: **203** Issue: **2** Pages: **306-316** Published: **FEB 2006**  
Times Cited: **0**
47. Title: [A theoretical approach of the heat transfer in nanofluids](#)  
Author(s): Mohorianu, SH; Agop, M  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume:  
**8** Issue: **5** Pages: **1741-1743** Published: **OCT 2006**  
Times Cited: **0**

## Anul 2007

- 41 lucrari

- 0 citari

1. Title: [Magnetic domains structure of DC Joule-heated conventional amorphous wires](#)  
Author(s): Astefanoaei, I; Stancu, A; Chiriac, H  
Source: **SENSOR LETTERS** Volume: **5** Issue: **1** Pages: **19-22** Published: **MAR 2007**  
Times Cited: **0**
2. Title: [New magnetic organic-inorganic composites based on hydrotalcite-like anionic clays for drug delivery](#)  
Author(s): Carja, G; Chiriac, H; Lupu, N  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **311** Pages: **26-30** Published: **2007**  
Times Cited: **0**
3. Title: [Microwire array for giant magneto-impedance detection of magnetic particles for biosensor prototype](#)  
Author(s): Chiriac, H; Herea, DD; Corodeanu, S  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **311** Pages: **425-428** Published: **2007**  
Times Cited: **0**
4. Title: [Energy recover device based on magnetostrictive amorphous magnetic ribbons](#)  
Author(s): Chiriac, H; Tibu, M; Tyren, C, et al.  
Source: **SENSOR LETTERS** Volume: **5** Issue: **1** Pages: **86-88** Published: **MAR 2007**  
Times Cited: **0**
5. Title: [High magnetostrictive cobalt ferrite for sensor applications](#)  
Author(s): Caltun, OF; Rao, GSN; Rao, KH, et al.  
Source: **SENSOR LETTERS** Volume: **5** Issue: **1** Pages: **45-47** Published: **MAR 2007**  
Times Cited: **0**
6. Title: [Effect of Nb and Y additions on glass formation and magnetic properties in the Fe78B14Si8 Alloy](#)  
Author(s): Piccin, R; Tiberto, P; Ababei, G, et al.  
Source: **ADVANCED ENGINEERING MATERIALS** Volume: **9** Pages: **480-482** Published: **2007**  
Times Cited: **0**
7. Title: [Magneto-impedance sensor for biomedical applications](#)  
Author(s): Chiriac, H; Herea, DD  
Source: **INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS** Volume: **25** Pages: **453-459** Published: **2007**  
Times Cited: **0**
8. Title: [Experimental and micromagnetic first-order reversal curves analysis in NdFeB-based bulk "exchange spring" - type permanent magnets](#)  
Author(s): Chiriac, H; Lupu, N; Stoleriu, L, et al.  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **316** Pages: **177-180** Published: **2007**  
Times Cited: **0**
9. Title: [Influence of the spacer layer on microstructure and magnetic properties of \[NdFeB/\(NbCu\)\] x n thin films](#)  
Author(s): Chiriac, H; Grigoras, M; Urse, M  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **316** Pages: **E128-E131** Published: **2007**

Times Cited: **0**

10. Title: [The effect of DC Joule-heating on magnetic structure of conventional amorphous wires](#)  
Author(s): Astefanoaei, I; Stancu, A; Chiriac, H  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **316**  
Pages: **E276-E279** Published: **2007**  
Times Cited: **0**
11. Title: [Surface and bulk magnetic behavior of Fe-Si-B amorphous thin films](#)  
Author(s): Dobromir, M; Neagu, M; Popa, G, et al.  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **316**  
Pages: **E904-E907** Published: **2007**  
Times Cited: **0**
12. Title: [Optimized GMI response of co-based amorphous glass-coated microwires by direct control over the magnetoelastic anisotropy from the surface region](#)  
Author(s): Chiriac, H; Corodeanu, S; Tibu, M, et al.  
Source: **IEEE TRANSACTIONS ON MAGNETICS** Volume: **43** Pages: **2977-2979**  
Published: **2007**  
Times Cited: **0**
13. Title: [The Co content and stratification effect on the magnetic properties, microstructure, and phase evolution of \[NdFeBNbCu/Co\]center dot n thin films](#)  
Author(s): Chiriac, H; Grigoras, M; Urse, M  
Source: **JOURNAL OF APPLIED PHYSICS** Volume: **101** Article No.: **09K523**  
Published: **2007**  
Times Cited: **0**
14. Title: [Size triggered change in the magnetization mechanism of nearly zero magnetostrictive amorphous glass-coated microwires](#)  
Author(s): Chiriac, H; Corodeanu, S; Tibu, M, et al.  
Source: **JOURNAL OF APPLIED PHYSICS** Volume: **101** Article No.: **09N116**  
Published: **2007**  
Times Cited: **0**
15. Title: [Preparation and magnetic properties of Fe-Ni and Cu-Ni composite coatings](#)  
Author(s): Chiriac, H; Moga, AE; Constantin, VA  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **1426-1430** Published: **2007**  
Times Cited: **0**
16. Title: [Preparation and magnetic properties of Co and Ni nanowire arrays](#)  
Author(s): Chiriac, H; Moga, AE; Gaburici, M, et al.  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **1465-1467** Published: **2007**  
Times Cited: **0**
17. Title: [On the Hall effect in low magnetostrictive Co<sub>68.25</sub>Fe<sub>4.5</sub>Si<sub>12.25</sub>B<sub>15</sub> amorphous ribbons](#)  
Author(s): Lozovan, M; Chiriac, H; Neagu, M  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **848-851** Published: **2007**  
Times Cited: **0**
18. Title: [High magnetostrictive doped cobalt ferrite](#)  
Author(s): Caltun, O; Chiriac, H; Lupu, N, et al.  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **1158-1160** Published: **2007**  
Times Cited: **0**



19. Title: [Synthesis and magnetic properties of Fe-Ni and Cu-Ni composite coatings](#)  
 Author(s): Chiriac, H; Moga, AE; Constantin, VA  
 Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **1161-1164** Published: **2007**  
 Times Cited: **0**
20. Title: [The additions effect on the microstructure and magnetic properties of \[NdFeB/M\]<sub>x</sub>n thin films](#)  
 Author(s): Chiriac, H; Grigoras, M; Urse, M  
 Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **1165-1168** Published: **2007**  
 Times Cited: **0**
21. Title: [Comparison between ac and dc current annealing in CoFeSiB glass-covered amorphous microwires](#)  
 Author(s): Sossmeier, KD; Bohn, F; Chiriac, H, et al.  
 Source: **JOURNAL OF PHYSICS D-APPLIED PHYSICS** Volume: **40** Pages: **3233-3238** Published: **2007**  
 Times Cited: **0**
- Title: [A new simulation method based on artificial neural networks for a special class of nanomagnetic materials design](#)
22. Author(s): Mohorianu, S; Lozovan, M; Baciuc, C  
 Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **1499-1504** Published: **2007**  
 Times Cited: **0**
23. Title: [Extrinsic magnetoresistance near room temperature in the La-Ca manganites doped with Cu](#)  
 Author(s): Craus, ML; Lozovan, M; Baciuc, C  
 Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **1582-1585** Published: **2007**  
 Times Cited: **0**
24. Title: [Structure and magnetic properties of some Cr-substituted manganites](#)  
 Author(s): Craus, ML; Lozovan, M; Cornei, N, et al.  
 Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **907-910** Published: **2007**  
 Times Cited: **0**
25. Title: [A novel bi-layer thin film sensor system for registering cardio-respiratory activity](#)  
 Author(s): Katranas, GS; Meydan, T; Ovari, TA, et al.  
 Source: **SENSOR LETTERS** Volume: **5** Issue: **1** Pages: **215-217** Published: **MAR 2007**  
 Times Cited: **0**
26. Title: [A frequency modulation based system using bilayer thin-film displacement sensors](#)  
 Author(s): Katranas, GS; Meydan, T; Ovari, TA, et al.  
 Source: **IEEE TRANSACTIONS ON MAGNETICS** Volume: **43** Issue: **3** Pages: **1035-1039** Published: **MAR 2007**  
 Times Cited: **0**
27. Title: [First magnetic materials with sensitivity for the physical quantity "curvature"](#)  
 Author(s): Pftzner, H; Kaniusas, E; Kosel, J, et al.  
 Source: **JOURNAL OF MATERIALS PROCESSING TECHNOLOGY** Volume: **181** Issue: **1-3** Pages: **186-189** Published: **JAN 1 2007**  
 Times Cited: **0**
28. Title: [Harmonic distortion minimisation in miniature matrix array loudspeakers](#)  
 Author(s): Rashedin, R; Meydan, T; Borza, F  
 Source: **SENSOR LETTERS** Volume: **5** Issue: **1** Pages: **241-243** Published: **MAR**

**2007**

Times Cited: **0**

- 29.** Title: [Thermal stability of bi-layer thin film displacement sensors](#)  
Author(s): Katranas, GS; Meydan, T; Ovari, TA, et al.  
Source: **SENSOR LETTERS** Volume: **5** Issue: **1** Pages: **102-104** Published: **MAR 2007**  
Times Cited: **0**
- 30.** Title: [X-ray diffraction analysis and magnetic behavior of amorphous Fe<sub>15</sub>Co<sub>17</sub>Ni<sub>58</sub>B<sub>10</sub> nanowires obtained by electrochemical deposition](#)  
Author(s): Vieyra, M; Meydan, T; Borza, F  
Source: **JOURNAL OF APPLIED PHYSICS** Volume: **101** Article No.: **09N102**  
Published: **2007**  
Times Cited: **0**
- 31.** Title: [A novel phase modulation-based system using bi-layer thin film displacement sensors](#)  
Author(s): Meydan, T; Katranas, GS; Ovari, TA, et al.  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **310**  
Pages: **E986-E988** Published: **2007**  
Times Cited: **0**
- 32.** Title: [Preparation and IR-spectroscopic characterization of Cd<sub>2</sub>InNbO<sub>6</sub> perovskite oxide](#)  
Author(s): Rusu, I; Craus, ML  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **2279-2282** Published: **2007**  
Times Cited: **0**
- 33.** Title: [The effect of a metallic layer on energetic states of quantum dots](#)  
Author(s): Astefanoaei, I; Dumitru, I; Grimberg, R, et al.  
Source: **SENSOR LETTERS** Volume: **5** Issue: **1** Pages: **185-188** Published: **MAR 2007**  
Times Cited: **0**
- 34.** Title: [The energetic states of quantum dots in the presence of a metallic layer](#)  
Author(s): Astefanoaei, I; Dumitru, I; Grimberg, R, et al.  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **316**  
Pages: **E273-E275** Published: **2007**  
Times Cited: **0**
- 35.** Title: [The capture of magnetic colloids at flow regimes specific to the capillary blood vessels](#)  
Author(s): Udrea, LE; Badescu, V; Strachan, NJC, et al.  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **2593-2601** Published: **2007**  
Times Cited: **0**
- 36.** Title: [Microstructural investigation of some biocompatible ferrofluids](#)  
Author(s): Racuciu, M; Creanga, DE; Badescu, V, et al.  
Source: **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** Volume: **316**  
Pages: **E772-E775** Published: **2007**  
Times Cited: **0**
- 37.** Title: [Dimensional study about water based ferrofluids](#)  
Author(s): Racuciu, M; Creanga, DE; Apetroaie, N, et al.  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **1633-1636** Published: **2007**  
Times Cited: **0**
- 38.** Title: [Synthesis and physical characterization of magnetic nano-particles functionalized](#)

with beta-cyclodextrin

Author(s): Racuciu, M; Creanga, DE; Badescu, V, et al.

Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **1530-1533** Published: **2007**

Times Cited: **0**

- 39.** Title: [The guidance of magnetic colloids in simulated tissues for targeted drug delivery](#)  
Author(s): Rotariu, O; Udrea, LE; Strachan, NJC, et al.  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **942-945** Published: **2007**  
Times Cited: **0**
- 40.** Title: [Microscopic observation of ferrofluid droplet formation from a cylindrical channels membrane](#)  
Author(s): Badescu, V; Badescu, R  
Source: **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** Volume: **9** Pages: **949-951** Published: **2007**  
Times Cited: **0**
- 41.** Title: [El Naschie's superconductivity in the time dependent Ginzburg-Landau model](#)  
Author(s): Buzea, CG; Agop, M; Galusca, G, et al.  
Source: **CHAOS SOLITONS & FRACTALS** Volume: **34** Pages: **1060-1074**  
Published: **2007**  
Times Cited: **0**

**ANEXA nr. 4.2**
**Lista brevetelor si citarilor, grupate pe ani**

<b>Numar brevete si citari</b> <b>01.11. 2002 – 30.10. 2007</b>	<b>din care:</b>
<b>4 brevete</b> <b>0 citari</b>	<b>3 brevete nationale</b> <b>1 brevet international (EPO)</b>

<b>Nr. crt.</b>	<b>Titlul brevetului</b>	<b>Numărul brevetului</b>	<b>Autorii</b>	<b>Tipul brevetului</b>		<b>Citări brevet</b>
<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>Anul 2002</b>						
	-					
<b>Anul 2003</b>						
1.	"Material catalitic sub formă de benzi și procedeu de preparare și tratament al acestuia"	a 2003 00659	CHIRIAC, H. URSE, M. MOGA, A.E.	național	OSIM	0
<b>Anul 2004</b>						
1.	"Filtru magnetic"	119446 B1	BĂDESCU, V. ROTARIU, O. MURARIU, V.	național	OSIM	0
2.	"Separator magnetic"	119447 B1	BĂDESCU, V. ROTARIU, O. MURARIU, V.	național	OSIM	0
3.	"Filtru electromagnetic cu gradient înalt de câmp pentru depoluarea gazelor industriale"	a 2004 00118	CURUIA, M. IACOB, Gh. ȘTEFĂNESCU, I. CHIRIAC, H.	național	OSIM	
<b>Anul 2005</b>						
1.	"Nanocrystalline magnetic glass-covered wires and process for their production"	EP 1 288 972 B1	CHIRIAC, H. BARARIU, F. OVARI, T.A. POP, Gh.	internațional	EPO	0
2.	"Material magnetic compozit sub formă de straturi subțiri multiple și procedeu de preparare al acestuia"	a 2005 00517	CHIRIAC, H. URSE, M.	național	OSIM	
3.	"Material compozit metal-dielectric, sub formă de straturi subțiri și procedeu de preparare al acestuia"	a 2005 00745	CHIRIAC, H. URSE, M. MOGA, A.E.	național	OSIM	
<b>Anul 2006</b>						

1.	"Procedeu de preparare a pulberilor de ferită"	121300 B1	POPA, P.D. REZLESCU, N. IACOB, Gh.	național	OSIM	0
<b>Anul 2007</b>						
-	-					

**ANEXA nr. 4.3**

**Lista produselor, serviciilor și tehnologiilor, grupate pe ani**

<b>Numar produse, tehnologii, servicii 1 Noiembrie 2002 – 30 Octombrie 2007</b>	<b>din care:</b>
<b>26</b>	<b>17 produse 1 tehnologie 4 studii tehnologice 4 servicii</b>

<b>Nr. crt.</b>	<b>Proiect Contract de cercetare/contract comercial Beneficiar</b>	<b>Rezultat</b>	<b>Termen de raportare / predare (luna)</b>
<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Anul 2002</b>			
1.	Proiect: Echipament pentru producerea firelor acoperite cu sticlă. Contract de cercetare nr. EN 00236/19.11.2001 Beneficiar: Universitate, Marea Britanie	Produs	Decembrie
<b>Anul 2003</b>			
1.	Aparat de măsurare a câmpului magnetic EMF-Gaussmeter. <u>Proiect:</u> Sistem de aparate de măsurare a câmpului magnetic destinate determinării gradului de poluare electromagnetică. PNC DI – RELANSIN, Contract nr. 599 /07.09.2000, Act Aditonal nr. 4/2002 Beneficiar: S.C. GRADIENT S.R.L. Iași	Produs	Aprilie
2.	Ventile termostat pentru: <ul style="list-style-type: none"> <li>• instalații de încălzire cu fluide recirculate tip VT-IFR</li> <li>• instalații de încălzire tip auto VT-TA</li> </ul> Proiect: Cercetări privind realizarea de ventile termostat pe bază de aliaj cu dilatare controlată în vederea modernizării sistemelor de încălzire sau climatizare și transferul tehnologic pentru producția de serie. PNC DI – RELANSIN, Contract nr. 620/08.09.2000; Act Aditonal nr. 2/2002 Beneficiar: S.C. FEPA S.A. Bârlad	2 Produse	Aprilie
3.	Echipament de sortare pe clase de calitate a cherestelei – partea electronică <u>Proiect:</u> Dezvoltarea, proiectarea și realizarea unui echipament de cubare și sortare pe clase de calitate prin tehnica ultrasunetelor, elaborarea tehnologiilor și procedurilor de utilizare aferente. PNC DI – RELANSIN, Subcontract nr. 1082/11.01.2001 Beneficiar: S.C. "Cozia Forest" Rm. Vâlcea	Produs	Mai

4.	<p>Coduri numerice pentru determinarea răspunsului traductorilor de curenți turbionari cu câmp magnetic rotitor la discontinuitățile de material din tuburile de presiune.</p> <p><u>Proiect:</u> Metode de curenți turbionari pentru evaluarea cantitativă nedistructivă a tuburilor de presiune din centrale nucleare tip PHWR.</p> <p>Contract de cercetare nr. 11164/RO/15.05.2002</p> <p>Beneficiar: IAEA-International Atomic Energy Agency, Viena, Austria</p>	Produce	Mai
5.	<p><u>Lucrare:</u> Dezintegrator ultrasonic.</p> <p>Contract comercial nr. 453/15.04.2003</p> <p>Beneficiar: Universitatea de Științe Agricole și Medicină Veterinară Cluj - Napoca</p>	Produce	Iulie
6.	<p>Material catalitic sub formă de pulberi M.C.P-01'.</p> <p><u>Proiect:</u> Eliminarea agenților poluanți din gazele reziduale ale centralelor termice utilizând materiale compozite cu proprietăți catalitice.</p> <p>PNCIDI – RELANSIN, Subcontract nr. 1781/27.02.2002</p> <p>Beneficiar: S.C. CET Govora S.A</p>	Produce	August
7.	<p>Aparat de detecție și măsurare a câmpului magnetic rezidual la produse industriale tip mTc-3.</p> <p><u>Proiect:</u> Cercetări privind realizarea unui sistem performant de detecție și măsurare a câmpului magnetic rezidual la produsele industriale.</p> <p>PNCIDI – CALIST, Contract nr. 2148/10.10.2001, Act Adițional nr.3 /04.02.2004</p> <p>Beneficiar: S.C. MITECO S.A. Iași</p>	Produce	Octombrie
8.	<p>Manual de prezentare a tehnologiei de supraaliere cu azot a stratului superficial al oțelurilor 40Cr10 și OLC 55 prin procese de difuzie la încălzire în plasmă electrolică.</p> <p><u>Proiect:</u> tehnologii de supraaliere a stratului superficial al metalelor prin procese de difuzie în plasmă electrolică.</p> <p>PNCIDI – CERES, Subcontract nr. 1009/23.01.2002</p> <p>Beneficiar: Universitatea Tehnică "Gh. Asachi" Iași</p>	Studiu tehnologic	Noiembrie
<b>Anul 2004</b>			
1.	<p>Asigurarea de cursuri de examinare vizuală și de certificare nivel I, II și III și elaborarea de materiale de pregătire.</p> <p><u>Lucrare:</u> Servicii de pregătire și certificare personal de execuție și evaluare lucrări de examinare vizuale aferente programelor de inspecție ale "CNE-PROD".</p> <p>Contract comercial nr. 1205/RO-15960/25.05.2004</p> <p>Beneficiar: S.N.N.-"CNE-PROD" Cernavodă</p>	Serviciu	Iunie

2.	Tehnologie de fabricație a matricei filtrante. <u>Proiect:</u> Filtru magnetic de depoluare și purificare a gazelor industriale. PNCDI – RELANSIN, Subcontract nr. 6677/09.08.2001, Act Adicional nr.1/2004 Beneficiar: S.C. Turbonef S.R.L. Rm Vâlcea	Tehnologie	Iulie
3.	Propuneri pentru modernizarea tehnologiilor de fabricație - Caiet de sarcini. <u>Proiect:</u> Modernizarea tehnologiilor de fabricație, inclusiv sisteme informaționale specifice fabricilor de prelucrare primară a lemnului, destinate creșterii volumului producției industriale și optimizării prelucrării materiei prime. PNCDI - RELANSIN, Subcontract nr.1747/01.08.2003, Act Adițional nr.1/2004 Beneficiar: S.C. Cozia Forest S.A	Studiu tehnologic	August
4.	Elaborarea procedurii de instruire și certificare personal pentru examinări vizuale. <u>Lucrare:</u> Servicii de pregătire și certificare personal de execuție și evaluare lucrări de examinări vizuale aferente programelor de inspecție ale "CNE-PROD". Contract comercial nr. 1205/RO-15960/26.05.2004 Beneficiar: S.N.N.-"CNE-PROD" Cernavodă	Serviciu	Octombrie
5.	<u>Lucrare:</u> Teslametru cu domeniu de măsurare $0... \pm 2,5$ mT în trei subintervale de măsurare, exactitate 2,5 % și rezoluție mai mică de 20 $\mu$ T. Contract comercial nr. 445/08.11.2004 Beneficiar: Direcția Regională de Metrologie Legală Bacău	Produce	Decembrie
<b>Anul 2005</b>			
1.	<u>Proiect:</u> Instalație pentru măsurători magnetice. Contract de cercetare nr. CE/ I-15 /2005 Beneficiar: Companie privată, SUA	Produce	Octombrie
2.	Coduri numerice de inversie pentru reconstrucția formei defectelor din tuburile de presiune. <u>Proiect:</u> Metode de curenți turbionari pentru evaluarea cantitativă nedistructivă a tuburilor de presiune din centrale nucleare tip PHWR. Contract nr. 11164/RO/15.09.2004 Beneficiar: IAEA-International Atomic Energy Agency, Viena, Austria	Produce	Septembrie
3.	<u>Proiect:</u> Instalație de preparare microfibre acoperite cu sticlă. Contract de cercetare nr. CE/ I-18/2005 Beneficiar: Companie privată, SUA	Produce	Noiembrie
4.	<u>Proiect:</u> Echipament de supraveghere electronică.	Produce	Noiembrie



	Contract de cercetare nr. CE/ I-18/2005 Beneficiar: Companie privată, SUA		
5.	<u>Proiect</u> : Senzor de torsiune. Contract de cercetare nr. CE/I-17/2005 Beneficiar: Companie privată, Suedia	Produs	Noiembrie
6.	<u>Lucrare</u> : Servicii de cercetare aplicativă pentru reevaluarea rezultatelor obținute în timpul OP-2004 prin examinarea cu metoda curenților turbionari a tuburilor HTR 88 A/B. Contract comercial nr. TD 17782/28.02.2005 Beneficiar: S.N.N. –“CNE-PROD” Cernavodă	Serviciu	Noiembrie
7.	<u>Lucrare</u> : -Soluții privind măsurarea câmpului magnetic de joasă frecvență în zone rezidențiale; - Asistență tehnică la măsuratori de câmp in situ; - Consultanță privind hărțile specifice izocâmp. Contract comercial nr. 1063/12.08.2005 Beneficiar: Centrul de Cercetări Științifice pentru Aparate Electrice, Universitatea POLITEHNICA București	Serviciu	Noiembrie
<b>Anul 2006</b>			
1.	<u>Proiect</u> : Instalații pentru detecția microfivelor magnetice amorfe. Contract de cercetare nr. CE/I-6/2005 Beneficiar: Companie privată, SUA	2 Produse	Iunie
2.	Explorarea posibilităților de realizare de noi biomateriale cu caracteristici magnetice <u>Proiect</u> : Cercetări aplicative în domeniul biostructurilor magnetice. PNCDI – CERES , Subcontract nr. 4/ 02.12.2004 Beneficiar: Institutul de Chimie Macromoleculară “P. Poni” Iași	Studiu tehnologic	Octombrie
<b>Anul 2007</b>			
1.	Studiu tehnologic privind caracterizarea fizico-mecanică a straturilor tip barieră termică. <u>Proiect</u> : Stratouri tip barieră termică pentru pistoanele motoarelor cu ardere internă. CEEX , Subcontract nr.7/03.10.05, Act Adițional nr.2/2007 Beneficiar: Universitatea Tehnică “Gh. Asachi” Iași	Studiu tehnologic	Mai

## **Anexa 5.1**

### **Lucrari stiintifice/tehnice publicate in reviste de specialitate fara cotatione ISI**

#### **5.1.1. Numar de lucrari stiintifice in reviste fara cotatione ISI**

<b>Anul</b>	<b>Numar lucrari</b>
2002	13
2003	10
2004	20
2005	31
2006	19
2007	14
<b>Total lucrari</b>	<b>107</b>
<b>Puctaj cumulata</b>	<b>107×5 = 535</b>

## Anul 2002

-13 lucrari

1. H. Chiriac, M. Urse, A. E. Moga, M. Lozovan  
*Influence of Zr and Nb content on the structural and magnetic properties of Fe-N films*  
The 16<sup>th</sup> European Conference On Solid-State Transducers (2002) 137-140
2. H. Chiriac, M. Lozovan, M. Neagu, E. Hristoforou, C. Hison  
*Galvanomagnetic and magnetostrictive behaviour in amorphous and nanocrystalline Fe<sub>75-x</sub>Cr<sub>x</sub>Cu<sub>1</sub>Nb<sub>3</sub>Si<sub>13.5</sub>B<sub>9</sub> (x=0, 1, 3) ribbons*  
Proceedings of The 16<sup>th</sup> European Conference on Solid-State Transducers, September 15-18, 2002, Prague, Czech Republic, M24, p. 165-167
3. C. Ioan, H. Chiriac, E. D. Diaconu, C. Macovei, M. Lozovan  
*High Sensitive Ferromodulating Magnetic Field Sensors*  
Proceedings of The 16<sup>th</sup> European Conference on Solid-State Transducers, September 15-18, 2002, Prague, Czech Republic, TP16, p. 592-594
4. H. Chiriac, N. Lupu  
*Nano-scale microstructure-magnetic properties relationship in cluster Nd-Fe-Al glassy magnets*  
International Semiconductor Conference, (2002) 131-134
5. H. Chiriac, M. Urse, A. E. Moga  
*Influence of the preparation conditions and activation treatment on the structural evolution of Ni-Zr powders*  
Advanced Materials and Structures Timisoara, (2002) 81-84
6. H. Chiriac, M. Urse, M. Lozovan, A. E. Moga, F. Rusu  
*Nanocomposite (Fe,Ni)-SiO<sub>2</sub> thin films close to the percolation threshold: microstructural and magnetotransport properties*  
Advanced Materials and Structures Timisoara, (2002) 85-88
7. H. Chiriac, N. Lupu  
*Preparation conditions-microstructure-magnetic properties relationship in bulk Fe-based metallic glasses*  
Advanced Materials and Structures Timisoara, (2002) 5-6
8. H. Chiriac, A. E. Moga, M. Urse  
*Structure and magnetic properties of nanocrystalline (Fe<sub>1-x</sub>Co<sub>x</sub>)<sub>73.5</sub>Cu<sub>1</sub>Nb<sub>3</sub>Si<sub>12.5</sub>B<sub>10</sub> powders*  
Moldavian Journal of Physical Science, vol.N1 (2002) 116-119
9. M. Pletea, H. Chiriac  
*Use of magnetostrictive amorphous alloy insulator multilayers in Magneto surface-acoustic-wave microdevices*  
Moldavian Journal of Physical Science, vol.N2 (2002) 92-9
10. H. Chiriac, M. Urse, M. Lozovan  
*Electrical and transport properties of FeBSi amorphous thin films*  
Moldavian Journal of Physical Science, vol.N2 (2002) 118-121
11. H. Chiriac, M. Urse, A. E. Moga, M. Lozovan, M. Pletea  
*On structural electrical and magnetic properties of Fe-Nb-N(O) thin films*  
Moldavian Journal of Physical Science, vol.N2 (2002) 122-125
12. H. Chiriac, M. Neagu, M. Vazquez, E. Hristoforou, M. Fecioru Morariu  
*Magnetostrictive behaviour of Co<sub>72.5-x</sub>Fe<sub>x</sub>Si<sub>12.5</sub>B<sub>15</sub> glass covered amorphous wires*  
Moldavian Journal of Physical Science, vol.N2 (2002) 126-129
13. Gh.Antoniou, R.Grimberg, A.Savin, R.Steigmann, I.Arnautu,  
*Sistem expert de evaluare a distributiei fibrelor in sectiuni transversale ale firelor,*



## Anul 2003

- 10 lucrari

1. Lupu N., Chiriac H.  
*Observation of nano-scale clusters in Nd-Fe-Al glassy hard magnets by HRTEM combined with neutron diffraction and magnetic measurements*  
Proceedings of THE 4<sup>TH</sup> INTERNATIONAL CONFERENCE ON INTELLIGENT PROCESSING AND MANUFACTURING OF MATERIALS - IPMM'03 PROCEEDINGS, 2003/ 18-23, CD: Session B10: Smart Materials and Composites II, Eds: J.A.Meech, Z.Kawayoe, J.F.Maguire, V.Kunar, H.Wang, Sedai, Japan
2. Neagu M., Chiriac H., Hison C.  
*Saturation magnetostriction of FeCoSiB glass covered amorphous wires*  
EUROSENSORS XVII – The 17<sup>th</sup> European Conference on Solid – State Transducers, SEPT. 21-24, 2003, Portugal, p. 665-668
3. Chiriac H., Tibu M., Dobre V., Murgulescu I.  
*Thin magnetic amorphous wires for GMI sensor*  
EUROSENSORS XVII – The 17<sup>th</sup> European Conference on Solid – State Transducers, SEPT., 21-24, 2003, Portugal, p. 677-678
4. H. Chiriac  
*New aspects on magnetic properties of amorphous micro and nanowires*  
„MAGNETIC SENSORS AND ACTUATORS” SEMINAR PROCEEDINGS SEPT: 2003
5. N. Lupu, H. Chiriac, J.M. Greneche  
*Atomic ordering and magnetic properties in the Nd<sub>50</sub>Fe<sub>40</sub>Al<sub>10</sub> melt-spun ribbons*  
DIGEST INTERMAG 2003 CS -07, Ianuarie 2003
6. H. Chiriac, N. Lupu, M. Tibu  
*Design and preparation of new Fe-based bulk amorphous alloys torroids for applications*  
DIGEST INTERMAG 2003 FS - 06, Ianuarie 2003
7. H. Chiriac, N. Lupu  
*Annealing effect on the magnetic inhomogeneities distribution in magnetic amorphous wires and microwires*  
DIGEST INTERMAG 2003 FS - 08, Ianuarie 2003
8. M. Neagu, H. Chiriac, C. Hison  
*Stress dependence of saturation magnetostriction for glass – covered amorphous wires*  
DIGEST INTERMAG 2003 FS - 09, Ianuarie 2003
9. R. Grimberg, A.Savin, R.Steigmann  
*Forward Problem for Eddy Current Inner Transducer With Rotating Magnetic Field; Application to Pressure Tubes from CANDU Nuclear Power Plant*  
Proceedings of The 3rd INTERNATIONAL CONFERENCE ON NDT of the Hellenic Society for NDT (HSNT), 15-17 October 2003, Chania, Crete-Greece, p. 292-296
10. R. Grimberg, A.Savin, R.Steigmann  
*Inverse Problem for Electromagnetic Field Diffraction on Ideal Cracks of Electric Conductive Materials,*  
Proceedings of the 3rd INTERNATIONAL CONFERENCE ON NDT of the Hellenic Society for NDT (HSNT), 15-17 October 2003, Chania, Crete-Greece, p. 297-302

## Anul 2004

- 20 lucrari

1. H. Chiriac, M.Urse, M. Lozovan, A-E. Moga, M. Grigoras  
*Microstructure and magnetic properties in percolating [FeNiCoB/(SiO<sub>2</sub>)]<sub>x</sub> n thin films*  
Romanian Reports in Physics, Vol. 56, No. 3, p. 352-358, 2004
2. M. Marinescu, H. Chiriac, M.Urse, A-E. Moga, M. Grigoras,  
*Preparation and physical properties of [NdFeB/(NbCu)]<sub>x</sub> n thin films*  
Romanian Reports in Physics, 56, no.3, (2004) 352- 358
3. V. Bădescu, E.L. Udrea și M.Atodiresei  
*Superparamagnetic Microcapsules for Magnetic Stabilized Fluidized beds as Bioreactors*  
Romanian Journal Physics, Vol. 49, Nrs. 5-6, 415-421(2004)
4. V. Bădescu, E.L. Udrea și M.Atodiresei  
*Superparamagnetic Microcapsules for Magnetic Stabilized Fluidized beds as Bioreactors*  
Romanian Journal Physics, Vol. 49, Nrs. 5-6, 415-421(2004)
5. V. Bădescu, M. Atodiresei and E.L. Udrea  
*On extension of magnetic stabilized fluidized beds of superparamagnetic carrier particles,*  
Romanian Journal Physics, Vol. 49, Nrs. 5-6, 409-414(2004)
6. N. Rezlescu, E.Rezlescu and C.L.Sava  
*La<sup>3+</sup> and Y<sup>3+</sup> ionic substitutions in Mg<sub>0.5</sub>Cu<sub>0.5</sub>Fe<sub>2</sub>O<sub>4</sub> compound*  
Romanian Journal of Physics **49** (2004) p.97-103.
7. Camelia-Laura Sava and Nicolae Rezlescu  
*The optical fibres – new possibilities in spectrometry*  
Romanian Journal of Physics **49** (2004) p.641-651
8. M. Baci, M. Lozovan, C. Baci  
*The influence of cryogenic treatments on the thermal expansion coefficient of the bearing steels*  
Buletinul Institutului Politehnic din Iași, Tom I (LIV), Fasc. 5b, 2004, Secția Construcții de Mașini, Secția Știința și Ingineria Materialelor, pp. 512-514
9. C. Baci, M. Baci, M. Lozovan,  
*Metallografic studies of certain alloys used in bimetals*  
Buletinul Institutului Politehnic din Iași, Tom I (LIV), Fasc. 5b, 2004, Secția Construcții de Mașini, Secția Știința și Ingineria Materialelor, pp. 508-511
10. M. Lozovan, M. Baci, C. Baci, H. Chiriac  
*Physical properties of some Fe-Ni alloys with additions for the thermostat of electric immersion heaters*  
Buletinul Institutului Politehnic din Iași, Tom I (LIV), Fasc. 5b, 2004, Secția Construcții de Mașini, Secția Știința și Ingineria Materialelor, pp. 587-590
11. R. Grimberg, Adriana Savin, A.Andreescu, Lelioara Iancu, Rozina Steigmann,  
*Nondestructive evaluation of timber, panels and batten board*  
Buletinul Institutului Politehnic din Iași, Tom L(LIV), Fasc.6B, 2004, Secția Construcții de Mașini, Secția Știința și Ingineria Materialelor pag.147-152 ISSN 1011-2855
12. R. Grimberg, Adriana Savin, Rozina Steigmann, A. Andreescu  
*Nondestructive testing in mechanical engineering in the perspective of Romania's accession to the European Union*  
Buletinul Institutului Politehnic din Iași, Tom L(LIV), Fasc.6B, 2004, Secția Construcții de Mașini, Secția Știința și Ingineria Materialelor, pg.153-157, ISSN 1011-2855
13. V. Palihovici, V. Goanta, R. Grimberg, Adriana Savin, Rozina Steigmann, A. Andreescu,  
*Nonlinear accumulation of fatigue at Zr-2.5%Nb alloy in the presence of hydrogen and*

*hydrides*

Buletinul Institutului Politehnic din Iași, Tom L(LIV), Fasc.6B, 2004, Secția Construcții de Mașini, Secția Știința și Ingineria Materialelor pg. 136-140, ISSN 1011-2855

- 14.** V. Palihovici, V. Goanta, R. Grimberg, A. Andreescu, Adriana Savin, Rozina Steigmann, *The influence of remanent stress relaxation over the nonlinear accumulation of fatigue in austenitic metastable steels used in Nuclear Power Plants*, Buletinul Institutului Politehnic din Iași, Tom L(LIV), Fasc.6B, 2004, Secția Construcții de Mașini, Secția Știința și Ingineria Materialelor pg. 141-146 ISSN1011-2855
- 15.** Camelia-Laura Sava and Nicolae Rezlescu  
*EDXRF – A new technique for trace element determination*  
Analele Universității de Vest din Timișoara - Seria Stiinte Fizice 44 (2004), Secția Construcții de Mașini, Secția Știința și Ingineria Materialelor p.52-56
- 16.** F. Tudorache, E. Rezlescu, P. D. Popa and N. Rezlescu  
*Experimental humidity sensors using  $Mg_xMe_{1-x}Cl_yFe_2O_4$  ferrites*  
Buletinul Universității Tehnice "Gh.Asachi" Iași (2004)
- 17.** Nicoleta Iftimie, E. Rezlescu, P. D. Popa and N. Rezlescu  
*Processing and characterization of a nickel ferrite as gas sensor*  
Buletinul Universității Tehnice "Gh.Asachi" Iași (2004)
- 18.** N.Rezlescu, E.Rezlescu and C.L.Sava,  
 *$La^{3+}$  and  $Y^{3+}$  ionic substitutions in  $Mg_{0.5}Cu_{0.5}Fe_2O_4$  compound*,  
Romanian Journal of Physics 49 (2004) p.97-103
- 19.** N.Rezlescu and F.Tudorache,  
*Structure and characteristics for humidity sensor between 70%RH and 85%RH*  
Advances in Micro- and Nanoengineering (Editori: Irina Kleps, Dan Dascălu, Jose Kenny), Editura Academiei Române, București, 2004, p.150-154
- 20.** N.Rezlescu and N. Iftimie,  
*On the possibility of the use of some ceramic semiconductors as gas sensors*  
Advances in Micro- and Nanoengineering (Editori: Irina Kleps, Dan Dascălu, Jose Kenny), Editura Academiei Române, București, 2004, p.208- 213.

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1. Chiriac H., Lupu N.  
*Design and preparation of new soft magnetic amorphous ferromagnets (Bulk amorphous alloy; amorphous wires, microwires and nanowires)*  
Properties and Applications of Nanocrystalline Alloys from Amorphous Precursors, p. 165 – 176, 2005
2. Lupu N., Chiriac H.  
*Microstructure – Magnetic properties relationship in nano-clustered glassy magnets (High coercivity Nd-Fe-Al glassy magnets)*  
Properties and Applications of Nanocrystalline Alloys from Amorphous Precursors, p. 437 – 446, 2005
3. N. Lupu, H. Chiriac  
*Microstructure-magnetic properties relationship in nano-clustered glassy magnets*  
NATO SCIENCE SERIES II: Mathematics, Physics and Chemistry (Eds.: B. Idzikowski, P. Svec, M. Miglierini), Vol. 184 (2005), Kluwer Academic Publishers, ISBN 1-4020-2964-0, p. 437-446
4. H. Chiriac, N. Lupu  
*Design and preparation of new soft magnetic amorphous ferromagnets*  
NATO SCIENCE SERIES II: Mathematics, Physics and Chemistry (Eds.: B. Idzikowski, P. Svec, M. Miglierini), Vol. 184 (2005), Kluwer Academic Publishers, ISBN 1-4020-2964-0, p. 165-176
5. H. Chiriac, N. Lupu  
*New FeNb based bulk amorphous and nanocomposite soft magnets for applications*  
Magnetics Conference 2005, INTERMAG Asia 2005, Digest of the IEEE International 4-8 April 2005, p. 531-532
6. M. Neagu, M. Dobromir, Gh. Popa, H. Chiriac, Gh. Singurel, C. Hison  
*Surface magnetic characterization of FeSiB amorphous ribbons*  
Magnetics Conference 2005, INTERMAG Asia 2005, Digest of the IEEE International 4-8 April 2005, p. 293-294
7. H. Chiriac, A.-E. Moga, C. Gherasim  
*Synthesis and magnetic properties of Co and Ni based nanostructures*  
Semiconductor Conference 2005, CAS 2005 Proceedings International, Vol.1, p. 59-62
8. M. Urse, H. Chiriac, M. Grigoraş, M. Ţibu  
*Multilayer nanogranular thin films as the materials for magnetic microinductors*  
Semiconductor Conference 2005, CAS 2005 Proceedings International, vol.1, p. 89-92
9. R. Grimberg, L. Udpa, S. Udpa, and A. Savin,  
*A Novel Rotating Magnetic Field Eddy Current Transducer for the Examination of Fuel Channels in PHWR Nuclear Power Plants*  
Review of Quantitative Nondestructive Evaluation Vol.25, ed. by D.O.Thompson and D.E. Chimenti © 2005, ISBN 0-7354-0245-0 pp. 471-478
10. R. Grimberg, A. Savin and R. Steigmann  
*Detection and Measurement of Fatigue in Ferromagnetic and Austenitic Steels using Eddy Current Sensors Array*  
Review of Quantitative Nondestructive Evaluation Vol.25, ed. by D.O.Thompson and D.E. Chimenti © 2005, ISBN 0-7354-0245-0, pp.1400-140
11. V.Palihovici, V.Goanta,R. Grimberg, Adriana Savin, Rozina Steigmann, A.Andreescu,  
*Probabilistic model for fatigue accumulation in superconductor magnets from ITER reactor,*



- The Fifth International Congress in Materials Science and Engineering, May 26-28, IASI – ROMANIA, SIM 2005, Bul.Inst.Polit.Iasi, t. LI(LV), Fasc.2, 2005, ISSN 1453-1690
12. Adriana Savin, Rozina Steigmann, R. Grimberg, A. Andreescu, V. Palihovici, V. Goanta,  
*Evaluation of fatigue at AISI 316L austenitic steels using eddy current microsensors array,*  
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**ANEXA nr. 5.2.**

**CONFERINȚE INTERNAȚIONALE**

**5.2.1. Numar de comunicari prezentate**

<b>Anul</b>	<b>Numar comunicari</b>
2002 (Nov-Dec)	-
2003	52
2004	81
2005	93
2006	66
2007	108
<b>Total comunicari</b>	<b>400</b>
<b>Puctaj cumulat</b>	<b><math>400 \times 5 = 2000</math></b>

Nr. crt.	Comunicarea	Conferința	Autor Afiliere
<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Anul 2003</b>			
1.	Atomic ordering and magnetic properties in the Nd <sub>50</sub> Fe <sub>40</sub> Al <sub>10</sub> melt-spun ribbons	International Magnetism Conference, INTERMAG 2003, Boston, S.U.A, Mai 2003	N. Lupu, H. Chiriac, J.M. Greneche) <i>INCDFT-IFT Iași</i> <i>Université du Maine</i> <i>Cedex France</i>
2.	Design and preparation of new Fe-based bulk amorphous alloys torroids for applications	International Magnetism Conference, INTERMAG 2003, Boston, S.U.A, Mai 2003	Chiriac H., Lupu N., Tibu M. <i>INCDFT-IFT Iași</i>
3.	Annealing effect on the magnetic inhomogeneities distribution in magnetic amorphous wires and microwires	International Magnetism Conference, INTERMAG 2003, Boston, S.U.A, Mai 2003	Chiriac H., Lupu N. <i>INCDFT-IFT Iași</i>
4.	Stress dependence of saturation magnetostriction for glass-covered amorphous wires	International Magnetism Conference, INTERMAG 2003, Boston, S.U.A, Mai 2003	Neagu M., Chiriac H., Hison C. <i>INCDFT-IFT Iași</i>
5.	Observation of nano-scale clusters in Nd-Fe-Al glassy hard magnets by HRTEM combined with neutron diffraction and magnetic measurements	THE 4 <sup>TH</sup> INTERNATIONAL CONFERENCE ON INTELLIGENT PROCESSING AND MANUFACTURING OF MATERIALS –Senday, Japonia, 2003	Lupu N., Chiriac H <i>INCDFT-IFT Iași</i>
6.	Saturation magnetostriction of FeCoSiB glass covered amorphous wires	<b>Euroensors XVII</b> The 17th European conference on solid-state transducers, University of Minho, Guimarães, Portugal, , September 21 - 24, 2003	Neagu M., Chiriac H., Hison C. <i>INCDFT-IFT Iași</i>
7.	Thin magnetic amorphous wires for GMI sensor	<b>Euroensors XVII</b> The 17th European conference on solid-state transducers, University of Minho, Guimarães, Portugal, , September 21 - 24, 2003	Chiriac H., Tibu M., Dobre V., Murgulescu I. <i>INCDFT-IFT Iași</i>
8.	In-Situ Evaluation of the Glass Thickness Influence on the Magnetic Properties of FeSiB Glass-Covered Amorphous Wires	International Conference on Magnetism, ICM, Italy, Rome, 27 July - 1 August, 2003	H. Chiriac, M. Tibu <i>INCDFT-IFT Iași</i>
9.	Anomalous magnetic relaxation in rapidly quenched Nd-Fe-B ribbons	International Conference on Magnetism, ICM, Italy, Rome, 27 July - 1 August, 2003	H. Chiriac, M. Marinescu <i>INCDFT-IFT Iași</i>
10.	Microstructure and Magnetic Properties of [NdFeB/(NbCu)] <sub>x</sub> n Thin Film	International Conference on Magnetism, ICM, Italy, Rome, 27 July - 1 August, 2003	H. Chiriac, M.Urse, M.Marinescu, A-E. Moga, M. Grigoraș <i>INCDFT-IFT Iași</i>
11.	Preparation and	International Conference on	H. Chiriac, A – E.



	magnetic properties of amorphous NiP and CoP nanowire arrays	Magnetism, ICM, Italy, Rome, 27 July - 1 August, 2003	Moga, M. Urse, I. Păduraru and N. Lupu <i>INCDFT-IFT Iași</i>
12.	Atomic Ordering and Magnetic Properties in $Nd_{90-x}Fe_xAl_{10-y}Si_y$ Hard Magnets	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	N. Lupu, H. Chiriac, J. M. Greneche, A. Inoue (Japonia) <i>INCDFT-IFT Iași</i> <i>Université du Maine, France</i> <i>IMT, Sendai, Japan</i>
13.	Amorphous Wires in Displacement Sensor Applications	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	F. Borza, T. Meydan (UK) <i>INCDFT-IFT Iași</i> <i>Cardiff Univ, UK</i>
14.	Bulk Nanocomposite RE-TM -M Permanent Magnet	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	M. Marinescu, P. C. Pawlik (UK), H. A. Davies (UK), H. Chiriac <i>INCDFT-IFT Iași</i> <i>Sheffield Univ. UK</i>
15.	Simulation of temperature dependent magnetization processes in RE-TM based amorphous alloys	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	L. Stoleriu, D. Cimpoesu, N. Lupu, H. Chiriac, A. Stancu <i>INCDFT-IFT Iași</i> <i>Univ "Al.I. Cuza" Iasi</i>
16.	Theoretical model for the calculation of the anisotropy distribution in the surface region of the amorphous wires	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	M. Raut, M. Tibu, H. Chiriac <i>INCDFT-IFT Iași</i>
17.	Structural, electrical and magnetic properties of (FeNi)-Zr-Nb-N thin films	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	M. Urse, H. Chiriac, A. E. Moga, M. Grigoras <i>INCDFT-IFT Iași</i>
18.	Transport properties of $(Nd_{0.67}In_{0.33})_{1-x}Sr_xMnO_{3\pm\delta}$ compounds	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	N. Cornei, M. L. Craus <i>INCDFT-IFT Iași</i> <i>Univ "Al.I. Cuza" Iasi</i>
19.	Evaluation of the glass thickness influence on the magnetic properties of FeSiB glass covered amorphous wires during the glass removal process	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	H. Chiriac, M. Tibu <i>INCDFT-IFT Iași</i>
20.	Fe content influence on the magnetic and magnetoelastic properties of nearly zero magnetostrictive Co-rich amorphous wires	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	M. Neagu, I. Murgulescu, C. Hison, H. Chiriac <i>INCDFT-IFT Iași</i>
21.	Magnetic properties of	ANMM 2003, 2 <sup>nd</sup> International	H. Chiriac, M. Tibu

	amorphous wires with different diameters	Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	and V. Dobrea <i>INCDFT-IFT Iași</i>
22.	The Hall effect of $\text{Co}_{72}\text{Fe}_2\text{B}_{17}\text{Si}_5\text{Mn}_4$ amorphous ribbons	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	M. Lozovan, M. Neagu, C. Hison, H. Chiriac <i>INCDFT-IFT Iași</i>
23.	Magnetic interactions in amorphous CoP nanowire arrays	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	H. Chiriac, I. Paduraru, N. Lupu <i>INCDFT-IFT Iași</i>
24.	A possibility for local targeting of magnetic carriers	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	Gh. Iacob, O. Rotariu, H. Chiriac <i>INCDFT-IFT Iași</i>
25.	Evaluation of the magnetic actuation of MEMS switch using non-crystalline magnetic microcomponents	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	H. Chiriac, M. Marinescu, M. Urse <i>INCDFT-IFT Iași</i>
26.	Magnetic noise measurement for fluxgate sensor Vacquier type with double excitation	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	C. Ioan, M. Tibu, H. Chiriac <i>INCDFT-IFT Iași</i>
27.	Magnetic filter with HGFM matrix for industrial gases depollution	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	M. Curuia, M. Iliescu, I. Stefanescu, Gh. Iacob, H. Chiriac <i>INCDFT-IFT Iași</i> <i>ICSI, Rm. Valcea</i>
28.	Preparation and magnetic properties of Ni, Co, and Co-Ni nanoparticles for medical applications	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	A. Moga, M. Urse, G.G. Nedelcu, H. Chiriac <i>INCDFT-IFT Iași</i>
29.	FMR response as a function of temperature in amorphous and nanocrystalline ribbons	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	F. Tufescu, N. Lupu, A. Stancu, and H. Chiriac <i>INCDFT-IFT Iași</i> <i>Univ "Al.I. Cuza" Iași</i>
30.	Mechanical properties of amorphous wires with diferent diameters	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	H. Chiriac, M. Tibu and V. Dobrea <i>INCDFT-IFT Iași</i>
31.	New procedure for preparing hexaferrite nanoparticles for magnetic support in the recording systems	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	N. Rezlescu, P. D. Popa, E. Rezlescu, F. Tudorache <i>INCDFT-IFT Iași</i>
32.	Using of microcapsules of magnetic nanoparticles in biomedical and biotechnological processes	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	E. L. Udrea, V. Badescu <i>INCDFT-IFT Iași</i>
33.	Eddy current qualitative nondestructive	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and	A. Savin, R. Grimberg, R.

	evaluation of metallic tubes. Applications to PHWR's pressure tubes evaluation	Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	Steigmann, A. Andreescu <i>INCDFT-IFT Iași</i>
34.	The detection and quantization degradation caused by the low cycles at austenitic meta-stable steels using eddy current microsensor array	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	R. Grimberg, V. Palihovici, R. Steigmann, A. Andreescu <i>INCDFT-IFT Iași</i>
35.	On the possibility of the use of some nanocrystalline ceramic semiconductors as gas sensor	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	N. Rezlescu, N. Iftimie <i>INCDFT-IFT Iași</i>
36.	MgCu nanocrystalline ceramic with La <sup>3+</sup> and Y <sup>3+</sup> ionic substitutions used as humidity sensor	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	N. Rezlescu, E. Rezlescu, F. Tudorache, P. D. Popa <i>INCDFT-IFT Iași</i>
37.	Fine grained ceramic for humidity sensor between 70%RH and 85%RH	ANMM 2003, 2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials, Iasi, Romania, Septembrie 2003	N. Rezlescu, E. Rezlescu, F. Tudorache, P. D. Popa <i>INCDFT-IFT Iași</i>
38.	Forward Problem for Eddy Current Inner Transducer With Rotating Magnetic Field; Application to Pressure Tubes from CANDU Nuclear Power Plant	The 3rd INTERNATIONAL CONFERENCE ON NDT of the Hellenic Society for NDT (HSNT), 15-17 October 2003, Chania, Crete-Greece	R. Grimberg, A.Savin, R.Steigmann <i>INCDFT-IFT Iași</i>
39.	Inverse Problem for Electromagnetic Field Diffraction on Ideal Cracks of Electric Conductive Materials	The 3rd INTERNATIONAL CONFERENCE ON NDT of the Hellenic Society for NDT (HSNT), 15-17 October 2003, Chania, Crete-Greece	R. Grimberg, A.Savin, R.Steigmann <i>INCDFT-IFT Iași</i>
40.	The Utilization of Non-Destructive Valuation Methods at Sawn Timber Grading	The 8th International IUFRO Wood Drying Conference, BRASOV, ROMANIA, 24 - 29 AUGUST 2003	L. Iancu, R. Grimberg, A. Savin, R. Steigmann <i>INCDFT-IFT Iași Univ Ploiesti</i>
41.	Effects of replacing Fe by La or Ga in Mg <sub>0.5</sub> Cu <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> . Humidity sensitivity	International Conference on Magnetism (ICM 2003), Roma, Italy, July 27-August 1, 2003	E.Rezlescu, N.Rezlescu, F.Tudorache and P.D.Popa <i>INCDFT-IFT Iași</i>
42.	Nanoparticles of high frequency ferrites obtained by self combustion method	International Conference on Magnetism (ICM 2003), Roma, Italy, July 27-August 1, 2003	N.Rezlescu, P.D.Popa and E.Rezlescu <i>INCDFT-IFT Iași</i>
43.	Magnetic glas-ceramic containing fine Li and Ba ferrite crystals	16 <sup>th</sup> Soft Magnetic Materials Conference (SMM 16), Dusseldorf, Germany, 9-12 September, 2003	N. Rezlescu and L. Rezlescu <i>INCDFT-IFT Iași</i>
44.	Effects of some substitutions on	16 <sup>th</sup> Soft Magnetic Materials Conference (SMM 16), Dusseldorf,	E. Rezlescu, N. Rezlescu, F.

	sintering, structure and humidity sensitivity of MgCu ferrite	Germany, 9-12 September, 2003	Tudorache and P. D. Popa <i>INCDFT-IFT Iași</i>
45.	Fine grained ceramic for humidity sensor between 70%RH and 85%RH	2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials (ANMM 2003), Iasi, Romania, September 15-17, 2003	N. Rezlescu, E. Rezlescu, F. Tudorache and P. D. Popa <i>INCDFT-IFT Iași</i>
46.	MgCu nanocrystalline ceramic with La <sup>3+</sup> and Y <sup>3+</sup> ionic substitutions used as humidity sensor	2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials (ANMM 2003), Iasi, Romania, September 15-17, 2003	N. Rezlescu, E. Rezlescu, F. Tudorache and P. D. Popa <i>INCDFT-IFT Iași</i>
47.	New procedure for preparing hexaferrite nanoparticles for magnetic support in the recording system	2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials (ANMM 2003), Iasi, Romania, September 15-17, 2003	N. Rezlescu, P. D. Popa, E. Rezlescu and F. Tudorache <i>INCDFT-IFT Iași</i>
48.	On the possibility of the use of some nanocrystalline ceramic semiconductor as gas sensor	2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials (ANMM 2003), Iasi, Romania, September 15-17, 2003	N. Rezlescu and Nicoleta Iftimie <i>INCDFT-IFT Iași</i>
49.	Yield stress in a fluidized bed stabilized with a compound magnetic field	International Conference on Magnetism (ICM) 27 July-1 August, Roma, Italy, 2003	M. Atodiresei, V. Bădescu and H. Chiriac / <i>INCDFT-IFT Iași</i>
50.	Superparamagnetic Microcapsules for Magnetic Stabilized Fluidized beds as Bioreactors	4th INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Ovidius University of Constanta, September 25-27, 2003.	V. Bădescu, E.L. Udrea și M. Atodiresei <i>INCDFT-IFT Iași</i> <i>Universitatea Tehnică "Gh. Asachi" Iasi</i>
51.	On extension of magnetic stabilized fluidized beds of superparamagnetic carrier particles	4th INTERNATIONAL BALKAN WORKSHOP ON APPLIED PHYSICS, Ovidius University of Constanta, September 25-27, 2003.	V. Bădescu, M. Atodiresei and E.L. Udrea <i>INCDFT-IFT Iași</i> <i>Universitatea Tehnică "Gh. Asachi" Iasi</i>
52.	Using of microcapsules of magnetic nanoparticles in biomedical and biotechnological processes	2 <sup>nd</sup> International Workshop on Amorphous and Nanostructured Magnetic Materials (ANMM), National Institute of R&D for Technical Physics Iasi, September 15-17, 2003.	E.L. Udrea and V. Bădescu <i>INCDFT-IFT Iași</i> <i>Universitatea Tehnică "Gh. Asachi" Iasi</i>
<b>Anul 2004</b>			
1.	Magnetic sensor based on giant magnetoimpedance effect for biomolecules detection	The 5th International Conference on the Scientific and Clinical Applications for Magnetic Carriers, Lyon, Franța, 20-22 Mai 2004	H. Chiriac, M. Tibu, A.E. Moga and D.D. Herea <i>INCDFT-IFT Iași</i>
2.	Amorphous magnetic microspheres for biomedical applications	The 5th International Conference on the Scientific and Clinical Applications for Magnetic Carriers, Lyon, Franța, 20-22 Mai 2004	H. Chiriac, A.E. Moga, G. Iacob, O.C. Mungiu <i>INCDFT-IFT Iași</i> <i>UMF Iasi</i>
3.	Measuring of	The 5th International Conference on	G. Fosa, R.

	Transmittance of Light: a Tool for Testing the Quality of Magnetic Liquids	the Scientific and Clinical Applications for Magnetic Carriers, Lyon, Franța, 20-22 Mai 2004	Bădescu, Gh. Călugăru, V. Bădescu <i>INCDFT-IFT Iași UMF Iasi</i>
4.	Immunomagnetic Separator for Concentration of Pathogen Microorganisms from Large Volume Samples	The 5th International Conference on the Scientific and Clinical Applications for Magnetic Carriers, Lyon, Franța, 20-22 Mai 2004	Ovidiu Rotariu, Iain D Ogden, Marion MacRae, Vasile Bădescu, Norval JC Strachan <i>INCDFT-IFT Iași Univ Aberdeen, UK</i>
5.	Magnetic noise measurement for fluxgate sensor Vaquier type with double excitation	The 5 <sup>th</sup> European Magnetic Sensors and Actuators Conference, EMSA 2004, Cardiff, UK, 4 – 7 Iulie 2004	C. Ioan, M. Jibu, H. Chiriac <i>INCDFT-IFT Iași</i>
6.	GMI Magnetic Sensor for Biomolecules Detection	The 5 <sup>th</sup> European Magnetic Sensors and Actuators Conference, EMSA 2004, Cardiff, UK, 4 – 7 Iulie 2004	H. Chiriac, Tibu M, A.-E. Moga, D. D. Herea <i>INCDFT-IFT Iași</i>
7.	New Fe-Nb-B based Bulk Amorphous and Nanocomposite Soft Magnets	The 5 <sup>th</sup> European Magnetic Sensors and Actuators Conference, EMSA 2004, Cardiff, UK, 4 – 7 Iulie 2004	H. Chiriac, N. Lupu, M. Jibu <i>INCDFT-IFT Iași</i>
8.	Nanocrystalline Fe <sub>87</sub> Zr <sub>7</sub> Al <sub>2</sub> B <sub>3</sub> Cu <sub>1</sub> ribbons	The 5 <sup>th</sup> European Magnetic Sensors and Actuators Conference, EMSA 2004, Cardiff, UK, 4 – 7 Iulie 2004	C. Hison, H. Chiriac, N. Lupu, M. Neagu <i>INCDFT-IFT Iași Univ. Al.I.Cuza Iasi</i>
9.	The surface magnetism investigation of FeSiBamorphous thin films obtained by evaporation technique	The 5 <sup>th</sup> European Magnetic Sensors and Actuators Conference, EMSA 2004, Cardiff, UK, 4 – 7 Iulie 2004	M. Dobromir, M. Neagu, G. Popa, H. Chiriac, Gh. Singurel, C. Hison <i>INCDFT-IFT Iași Univ. Al.I.Cuza Iasi</i>
10.	GMI effect in magnetic amorphous wires with different diameters	The 5 <sup>th</sup> European Magnetic Sensors and Actuators Conference, EMSA 2004, Cardiff, UK, 4 – 7 Iulie 2004	H. Chiriac, M. Jibu, V. Dobrea <i>INCDFT-IFT Iași</i>
11.	Study of Magnetoimpedance effect in Co-Fe-Si-B glass covered microwires	The 5 <sup>th</sup> European Magnetic Sensors and Actuators Conference, EMSA 2004, Cardiff, UK, 4 – 7 Iulie 2004	N. Kane, F. Alves, Zs. Gercsi, F. Mazaleyrat, H. Chiriac, M. Vazquez <i>Ecole Normale Super, SATIE, CNRS, UMR 8029, F-94235 Cachan, France Hungarian Acad Sci, RISSPO, H-1525 Budapest, Hungary Holkar Sci Coll, Dept Phys, Indore 452017, India Natl Inst R&amp;D Tech Phys, Iasi,</i>

			<i>Romania CSIC, Inst Ciencias Mat, E-28049 Madrid, Spain</i>
12.	New Nanostructured Soft Magnets in Fe – Au(Cu) – B	The 5 <sup>th</sup> European Magnetic Sensors and Actuators Conference, EMSA 2004, Cardiff, UK, 4 – 7 Iulie 2004	N. Lupu, A. Inoue <i>INCDFT-IFT Iași Tohoku Univ, Mat Res Inst, Sendai, Japan</i>
13.	Preparation and magnetic properties of graphite coated Ni and Co based nanoparticles for medical applications	The Joint European Magnetic Symposia (SEMS'04), Dresden, Germania, 5 – 10 Septembrie 2004	H. Chiriac, N. Lupu, G.G. Nedelcu, A.E. Moga, M. Urse <i>INCDFT-IFT Iași</i>
14.	Magnetic properties versus annealing temperature in positive magnetostrictive FeSiB CAW and GCAW	The Joint European Magnetic Symposia (SEMS'04), Dresden, Germania, 5 – 10 Septembrie 2004	H. Chiriac, N. Lupu, J.M. Greneche <i>INCDFT-IFT Iași Université du Maine, France</i>
15.	Temperature effects on mi ratio of different amorphous magnetic wires	The Joint European Magnetic Symposia (SEMS'04), Dresden, Germania, 5 – 10 Septembrie 2004	O. Montero, V. Raposo, D. Garcia, H. Chiriac, J.I. Iniguez <i>Univ. Salamanca, Spain INCDFT-IFT Iași</i>
16.	Comparative study on the GMI effect in amorphous wires, glass – covered wires and nanowires array	The Joint European Magnetic Symposia (SEMS'04), Dresden, Germania, 5 – 10 Septembrie 2004	H. Chiriac, N. Lupu <i>INCDFT-IFT Iași</i>
17.	Magnetic properties of amorphous wires with different diameters	The Joint European Magnetic Symposia (SEMS'04), Dresden, Germania, 5 – 10 Septembrie 2004	H. Chiriac, M. Jibu, V. Dobrea <i>INCDFT-IFT Iași</i>
18.	Magnetic property of bulk permanent magnets based on NdDyFeB alloys with additions	The Joint European Magnetic Symposia (SEMS'04), Dresden, Germania, 5 – 10 Septembrie 2004	M. Marinescu, H. Chiriac, M. Grigoraș <i>INCDFT-IFT Iași</i>
19.	Magnetic properties vs. critical thickness and temperature in bulk Nd <sub>50</sub> Fe <sub>40</sub> Al <sub>10</sub> glassy hard magnets	The Joint European Magnetic Symposia (SEMS'04), Dresden, Germania, 5 – 10 Septembrie 2004	N. Lupu, H. Chiriac, M. Marinescu, G. Ausanio, V. Ianotti, L. Lanotte <i>INCDFT-IFT Iași Univ Naples, Italy</i>
20.	Surface magnetic anisotropy in nearly zero magnetostrictive CAW and GCAW by FMR measurements	The Joint European Magnetic Symposia (SEMS'04), Dresden, Germania, 5 – 10 Septembrie 2004	H. Chiriac, N. Lupu, A.M. Fecioru, T.A. Ovari <i>INCDFT-IFT Iași</i>
21.	Magnetic properties versus annealing temperature in positive magnetostrictive FeSiB CAW and GCAW	The Joint European Magnetic Symposia (SEMS'04), Dresden, Germania, 5 – 10 Septembrie 2004	H. Chiriac, N. Lupu, J.M. Greneche <i>INCDFT-IFT Iași Université du Maine Cedex France</i>

22.	Magnetic properties of new glassy Fe – Au(Cu) – B alloys	The Joint European Magnetic Symposia (SEMS'04), Dresden, Germania, 5 – 10 Septembrie 2004	N. Lupu, A. Inoue <i>INCDFT-IFT Iași</i>
23.	PrFeCoB – based nanocomposite magnets derived from bulk alloy glass precursors	The Joint European Magnetic Symposia (SEMS'04), Dresden, Germania, 5 – 10 Septembrie 2004	H.A. Davies, P.C. Pawlik, M. Marinescu, I. Todd, N.J. Harrison <i>INCDFT-IFT Iași Univ. Sheffield, UK</i>
24.	Fine grained MgCu ferrite with ionic substitutions used as humidity sensors	The Joint European Magnetic Symposia (SEMS'04), Dresden, Germania, 5 – 10 Septembrie 2004	E. Rezlescu, N. Rezlescu and P.D. Popa <i>INCDFT-IFT Iași</i>
25.	Detection and Evaluation of Fatigue State of Ferromagnetic and Austenitic Metastable Steels using Eddy Current Sensors Arrays	The 31 st Annual Review of Progress in Quantitative Nondestructive Evaluation (QNDE 2004), Colorado School of Mines, Golden, Colorado, SUA, July 25-30, 2004	R. Grimberg, A. Savin, R. Steigmann <i>INCDFT-IFT Iași</i>
26.	A Novel Rotating Magnetic Field Eddy Current Transducer for the Examination of Fuel Channels in PHWR Nuclear Power Plants	The 31 st Annual Review of Progress in Quantitative Nondestructive Evaluation (QNDE 2004), Colorado School of Mines, Golden, Colorado, SUA, July 25-30, 2004	R. Grimberg, S.Udpa, Lalita Udpa, A. Savin, R. Steigmann <i>INCDFT-IFT Iași Michigan State University, East Lansing, USA</i>
27.	Microstructure and humidity sensitive properties of MgFe <sub>2</sub> O <sub>4</sub> ferrite with Ni and Mn substitutions	The Second Seeheim Conference on Magnetism, Seeheim, Germany, June 27-july 1, 2004	E. Rezlescu, N. Rezlescu, F. Tudorache and P.D. Popa <i>INCDFT-IFT Iași</i>
28.	Li and Ba ferrite nanoparticles prepared by self combustion method	The Second Seeheim Conference on Magnetism, Seeheim, Germany, June 27-july 1, 2004	N. Rezlescu, E. Rezlescu, P.D. Popa <i>INCDFT-IFT Iași</i>
29.	Polycrystalline soft ferrites for semiconductor humidity sensor	The Ninth International Conference on Ferrites (ICF-9), San Francisco, California, USA, 23-27 august 2004	N. Rezlescu, E. Rezlescu, P.D. Popa and F. Tudorache <i>INCDFT-IFT Iași</i>
30.	Properties of humidity sensitive MgZn ferrites doped with salts	The Ninth International Conference on Ferrites (ICF-9), San Francisco, California, USA, 23-27 august 2004	E. Rezlescu, P.D. Popa, F. Tudorache and N. Rezlescu <i>INCDFT-IFT Iași</i>
31.	Strontium and Barium ferrites with CaO additives as magnetic recording media, prepared by a new method	The Ninth International Conference on Ferrites (ICF-9), San Francisco, California, USA, 23-27 august 2004	N. Rezlescu, P.D.Popa, E. Rezlescu <i>INCDFT-IFT Iași</i>
32.	Nanometric granular semiconductive material for humidity sensor used in conservation of food-stuffs	The Fourth International Conference on Inorganic Materials, Antwerp, Belgium, 19-21 September 2004	N. Rezlescu, E. Rezlescu, F. Tudorache and P.D. Popa <i>INCDFT-IFT Iași</i>
33.	Fine oxide ceramic for semiconducting gas	The Fourth International Conference on Inorganic Materials, Antwerp,	E. Rezlescu, N.Iftimie and N.

	sensor	Belgium, 19-21 September 2004	Rezlescu <i>INCDFT-IFT Iași</i>
34.	Magnetic properties versus annealing temperature in positive magnetostrictive FeSiB conventional and glass – covered amorphous wires	The 7 <sup>th</sup> International Conference on Physics of Advanced Materials (ICPAM 7), Iasi, Romania, 10 – 12 Iunie, 2004	H. Chiriac, N. Lupu, J. – M Greneche <i>INCDFT-IFT Iași</i> <i>Université du Maine</i> <i>Cedex France</i>
35.	Microstructural magnetic studies in hard magnetic nanocomposites	The 7 <sup>th</sup> International Conference on Physics of Advanced Materials (ICPAM 7), Iasi, Romania, 10 – 12 Iunie, 2004	M. Marinescu, H. Chiriac, L. Stoleriu, Al. Stancu <i>INCDFT-IFT Iași</i> <i>Univ. Al.I.Cuza, Iasi</i>
36.	Magnetic and electrical properties of [NiFe)/SiO <sub>2</sub> ]xN multilayer thin films	The 7 <sup>th</sup> International Conference on Physics of Advanced Materials (ICPAM 7), Iasi, Romania, 10 – 12 Iunie, 2004	M. Urse, A. – E. Moga, M. Grigoras, H. Chiriac <i>INCDFT-IFT Iași</i>
37.	Synthesis and magnetic properties of carbon – coated Ni and Co nanoparticles	The 7 <sup>th</sup> International Conference on Physics of Advanced Materials (ICPAM 7), Iasi, Romania, 10 – 12 Iunie, 2004	H. Chiriac, A. – E. Moga, M. Grigoras <i>INCDFT-IFT Iași</i>
38.	A model of humidity sensor with MgCuGa ferrite	The 7 <sup>th</sup> International Conference on Physics of Advanced Materials (ICPAM 7), Iasi, Romania, 10 – 12 Iunie, 2004	N. Rezlescu, E. Rezlescu, P.D. Popa and F. Tudorache <i>INCDFT-IFT Iași</i>
39.	Humidity sensitive MgZn ferrites doped with salts for humidity sensors	The 7 <sup>th</sup> International Conference on Physics of Advanced Materials (ICPAM 7), Iasi, Romania, 10 – 12 Iunie, 2004	E. Rezlescu, P.D. Popa, F. Tudorache and N. Rezlescu <i>INCDFT-IFT Iași</i>
40.	Some magnesium ferrites used as semiconductor humidity sensor	The 7 <sup>th</sup> International Conference on Physics of Advanced Materials (ICPAM 7), Iasi, Romania, 10 – 12 Iunie, 2004	F. Tudorache, E. Rezlescu, P.D. Popa and N. Rezlescu <i>INCDFT-IFT Iași</i>
41.	Influence of Ca on properties of Sr and Ba ferrites for magnetic media prepared by Combustion	The 7 <sup>th</sup> International Conference on Physics of Advanced Materials (ICPAM 7), Iasi, Romania, 10 – 12 Iunie, 2004	P.D.Popa, E. Rezlescu, N. Rezlescu <i>INCDFT-IFT Iași</i>
42.	Nanoclusters in Nd – Fe – Al glassy hard magnets. Experimental and theoretical approaches	The 7 <sup>th</sup> International Conference on Nanostructured Materials, Wiesbaden, Germania, 20 – 24 Iunie 2004	N. Lupu, H. Chiriac <i>INCDFT-IFT Iași</i>
43.	Preparation and magnetic properties of graphite – coated Ni and Co – based nanoparticles for medical applications	The 7 <sup>th</sup> International Conference on Nanostructured Materials, Wiesbaden, Germania, 20 – 24 Iunie 2004	H. Chiriac, A. – E. Moga, M. Urse, G. G. Nedelcu, N.Lupu <i>INCDFT-IFT Iași</i>
44.	Magnetic properties of CoP nanowire arrays	The 7 <sup>th</sup> International Conference on Nanostructured Materials, Wiesbaden, Germania, 20 – 24 Iunie 2004	H. Chiriac, I. Paduraru, N. Lupu <i>INCDFT-IFT Iași</i>
45.	GMI effect in magnetic amorphous wires with	The 5 <sup>th</sup> International Balkan Workshop on Applied Physics,	H. Chiriac, M. Jibu, V. Dobrea



	different diameters	Constanța, România, 5 – 7 Iulie 2004	<i>INCDFT-IFT Iași</i>
46.	Magnetic, electrical and structural properties of Fe-Co-B-N thin films	The 5 <sup>th</sup> International Balkan Workshop on Applied Physics, Constanța, România, 5 – 7 Iulie 2004	M. Urse, A. – E. Moga, H. Chiriac, M. Grigoraș <i>INCDFT-IFT Iași</i>
47.	Fully – dense nanocomposite rare – earth based permanent magnets	The 5 <sup>th</sup> International Balkan Workshop on Applied Physics, Constanța, România, 5 – 7 Iulie 2004	M. Marinescu, H. Chiriac, M. Grigoraș <i>INCDFT-IFT Iași</i>
48.	Magnetization processes in nanoclustered Nd-Fe-Al glassy hard magnets	The 4 <sup>th</sup> International Workshop on Materials for Electrotechnics, București, România, 26 – 28 Mai 2004	N. Lupu, D. Cimpoesu, L. Stoleriu, Stancu A., Chiriac H <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iasi</i>
49.	Magnetic properties of amorphous CoP nanowire arrays	The 4 <sup>th</sup> International Workshop on Materials for Electrotechnics, București, România, 26 – 28 Mai 2004	H. Chiriac, I. Paduraru, N. Lupu <i>INCDFT-IFT Iași</i>
50.	Magnetic properties of amorphous wires with different diameters	The 4 <sup>th</sup> International Workshop on Materials for Electrotechnics, București, România, 26 – 28 Mai 2004	H. Chiriac, M. Tibu, V. Dobrea <i>INCDFT-IFT Iași</i>
51.	GMI effect in amorphous wires, glass-covered wires and nanowires arrays	The 4 <sup>th</sup> International Workshop on Materials for Electrotechnics, București, România, 26 – 28 Mai 2004	H. Chiriac, M. Tibu, N. Lupu <i>INCDFT-IFT Iași</i>
52.	Study of the microstructural magnetic parameters in Nd-Fe-B nanocomposites	The 4 <sup>th</sup> International Workshop on Materials for Electrotechnics, București, România, 26 – 28 Mai 2004	M. Marinescu, H. Chiriac <i>INCDFT-IFT Iași</i>
53.	Magnetic, electrical and structural properties of granular [FeCoB/(SiO <sub>2</sub> )] <sub>n</sub> films	The 4 <sup>th</sup> International Workshop on Materials for Electrotechnics, București, România, 26 – 28 Mai 2004	M. Urse, A.-E. Moga, M. Grigoras, H. Chiriac <i>INCDFT-IFT Iași</i>
54.	A laboratory model of humidity sensor with ferrite	The 4 <sup>th</sup> International Workshop on Materials for Electrotechnics, București, România, 26 – 28 Mai 2004	N. Rezlescu, E. Rezlescu, P.D. Popa and F. Tudorache <i>INCDFT-IFT Iași</i>
55.	Nondestructive evaluation of timber, panels and batten board	The 1 <sup>st</sup> INTERNATIONAL CONFERENCE ADVANCED CONCEPTS IN MECHANICAL ENGINEERING, Iași, Romania, 2004	R. Grimberg, Adriana Savin, A.Andreescu, Lelioara Iancu, Rozina Steigmann <i>INCDFT-IFT Iași S.C. Institutul Național al Lemnului S.A. București</i>
56.	Nondestructive testing in mechanical engineering in the perspective of Romania's accession to the European Union	The 1 <sup>st</sup> INTERNATIONAL CONFERENCE ADVANCED CONCEPTS IN MECHANICAL ENGINEERING, Iași, Romania, 2004	R. Grimberg, Adriana Savin, Rozina Steigmann, A. Andreescu <i>INCDFT-IFT Iași</i>

57.	Nonlinear Accumulation Of Fatigue At Zr-2.5%Nb Alloy In The Presence Of Hydrogen And Hydrides	The 1 <sup>st</sup> INTERNATIONAL CONFERENCE ADVANCED CONCEPTS IN MECHANICAL ENGINEERING, Iași, Romania, 2004	V. Palihovici, V. Goanta, R. Grimberg, Adriana Savin, Rozina Steigmann, A. Andreescu <i>INCDFT-IFT Iași Tech Univ Gh Asachi, Iași</i>
58.	The Influence Of Remanent Stress Relaxation Over The Nonlinear Accumulation Of Fatigue In Austenitic Metastable Steels Used In Nuclear Power Plants	The 1 <sup>st</sup> INTERNATIONAL CONFERENCE ADVANCED CONCEPTS IN MECHANICAL ENGINEERING, Iași, Romania, 2004	V. Palihovici, V. Goanta, R. Grimberg, A. Andreescu, Adriana Savin, Rozina Steigmann <i>INCDFT-IFT Iași Tech Univ Gh Asachi, Iași</i>
59.	New Nanodimensional And Nanostructured Magnetic Materials: Preparation, Properties and Applications	IEEE – ROMSC 2004, Iasi, Romania, 10 – 11 Iunie 2004	H. Chiriac <i>INCDFT-IFT Iași</i>
60.	Magnetic, Electrical And Structural Properties Of Nanogranular [Fecon/(SiO <sub>2</sub> )X N Thin Films	IEEE – ROMSC 2004, Iasi, Romania, 10 – 11 Iunie 2004	M. Urse, A. – E. Moga, H. Chiriac, M. Grigoras <i>INCDFT-IFT Iași</i>
61.	High Frequency GMI Effect In Cofesib Amorphous Wires With Different Diameters	IEEE – ROMSC 2004, Iasi, Romania, 10 – 11 Iunie 2004	H. Chiriac, M. Tibu <i>INCDFT-IFT Iași</i>
62.	Surface Magnetism Study Of Fe – Based Amorphous Thin Films	IEEE – ROMSC 2004, Iasi, Romania, 10 – 11 Iunie 2004	M. Dobromir, M. Neagu, G. Popa, Gh. Singurel, H. Chiriac <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iași</i>
63.	Simulation Of Magnetic Properties Vs. Temperature Dependence For RE – TM Based Amorphous Alloys	IEEE – ROMSC 2004, Iasi, Romania, 10 – 11 Iunie 2004	D. Cimpoesu, L. Stoleriu, Al. Stancu, N. Lupu, H. Chiriac <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iași</i>
64.	A Model Of Humidity Sensor With Mgcuga Ferrite	International Conference On Physics Of Advanced Materials (ICPAM-7), Al.I.Cuza University, Iasi, Romania, 10-12 June 2004	N.Rezlescu, E.Rezlescu, P.D.Popa and F.Tudorache <i>INCDFT-IFT Iași</i>
65.	Humidity Sensitive Mgzn Ferrites Doped With Salts For Humidity Sensors	International Conference On Physics Of Advanced Materials (ICPAM-7), Al.I.Cuza University, Iasi, Romania, 10-12 June 2004	E. Rezlescu, P. D. Popa, F. Tudorache and N. Rezlescu <i>INCDFT-IFT Iași</i>
66.	Influence Of Ca On Properties Of Sr And Ba Ferrites For Magnetic	International Conference On Physics Of Advanced Materials (ICPAM-7), Al.I.Cuza University, Iasi, Romania,	P.D.Popa, E.Rezlescu and N.Rezlescu

	Media Prepared By Combustion	10-12 June 2004	<i>INCDFT-IFT Iași</i>
67.	On The Possibility Of The Use Of A Nickel Ferrite As Semiconducting Gas Sensor	International Conference On Physics Of Advanced Materials (ICPAM-7), Al.I.Cuza University, Iasi, Romania, 10-12 June 2004	N.Iftimie, E.Rezlescu, P.D.Popa and N.Rezlescu <i>INCDFT-IFT Iași</i>
68.	Some Magnesium Ferrites Used As Semiconductor Humidity Sensor	International Conference On Physics Of Advanced Materials (ICPAM-7), Al.I.Cuza University, Iasi, Romania, 10-12 June 2004	F.Tudorache, E.Rezlescu, P. D.Popa and N.Rezlescu <i>INCDFT-IFT Iași</i>
69.	Microstructure And Humidity Sensitive Properties Of $MgFe_2O_4$ Ferrite With Ni And Mn Substitutions	Second Seeheim Conference On Magnetism, Seeheim, Germany, June 27 – July 1, 2004	E.Rezlescu, N.Rezlescu, F.Tudorache and P.D.Popa <i>INCDFT-IFT Iași</i>
70.	Li And Ba Ferrite Nanoparticles Prepared By Self Combustion Method	Second Seeheim Conference On Magnetism, Seeheim, Germany, June 27 – July 1, 2004	N.Rezlescu, E.Rezlescu and P.D.Popa <i>INCDFT-IFT Iași</i>
71.	Fine Grained MgCu Ferrite With Ionic Substitutions Used As Humidity Sensors	Joint European Magnetic Simposia (SEMS'04), Dresden, Germany, 05 - 10 September, 2004	E. Rezlescu, N. Rezlescu and P. D. Popa <i>INCDFT-IFT Iași</i>
72.	Strontium Ferrite Powder Used In Magnetic Recording Prepared By A New Method	Joint European Magnetic Simposia (SEMS'04), Dresden, Germany, 05 - 10 September, 2004	N.Rezlescu, P.D.Popa and E.Rezlescu <i>INCDFT-IFT Iași</i>
73.	Measuring Of Transmittance Of Light: A Tool For Testing The Quality Of Magnetic Liquids	5 <sup>th</sup> International Conf. On The Sci. Clin. Appl. Magn. Carriers., May 20-22, Lyon, France, 2004	G. Fosa, R. Bădescu, Gh. Călugăru, V. Bădescu <i>Universitatea Tehnică "Gh. Asachi" Iasi INCDFT-IFT Iași</i>
74.	Immunomagnetic Separator For Concentration Of Pathogen Microorganisms From Large Volume Samples	5 <sup>th</sup> International Conf. On The Sci. Clin. Appl. Magn. Carriers., May 20-22, Lyon, France, 2004.	Ovidiu Rotariu, Iain D Ogden, Marion MacRae, Vasile Bădescu and Norval JC Strachan <i>INCDFT-IFT Iași University of Aberdeen, UK</i>
75.	On Azimuthal Distribution Of The Transmitted Optical Intensity In Some Magnetic Liquids	7 <sup>th</sup> International Conference On Physics Of Advanced Materials, Icpam-7, "Al.I.Cuza University", Iasi, June 10 - 12, 2004.	Gabriela Fosa, V. Bădescu, Rodica Bădescu and Gh. Călugăru <i>Universitatea Tehnică "Gh. Asachi" Iasi INCDFT-IFT Iași</i>
76.	Some Physical Properties Of A Magnetic Stabilized Fluidized Bed For Biological Species	7 <sup>th</sup> International Conference On Physics Of Advanced Materials, Icpam-7, "Al.I.Cuza University", Iasi, June 10 - 12, 2004.	Laura Elena Udrea, V. Bădescu and Rodica Bădescu <i>INCDFT-IFT Iași Universitatea</i>

	Recovery		<i>Tehnică "Gh. Asachi" Iasi</i>
77.	Preparation Et Caracterisation De Composites Avec Des Proprietes Superparamagnetiques	3-Eme COLLOQUE FRANCO – ROUMAIN DE CHIMIE APPLIQUÉE, SLĂNIC – MOLDOVA, BACĂU, ROUMANIE, 22 - 26 Septembre, 2004.	E.L. Udrea, M.I. Popa and V.Bădescu <i>INCDFT-IFT Iași Universitatea Tehnică "Gh. Asachi" Iasi</i>
78.	Some Aspects Concerning The Preparation And Characterization Of A Ferrofluidic Emulsion	International Workshop On Magnetic Nanomaterials, INCDFT Iasi, 27-28 Sept., 2004.	Rodica Bădescu, Gabriela Fosa and Vasile Bădescu <i>Universitatea Tehnică "Gh. Asachi" Iasi INCDFT-IFT Iași</i>
79.	On Environmental Application Possibility Of A Magnetic Stabilized Biological Fluidized Bed	International Workshop On Magnetic Nanomaterials, INCDFT Iasi, 27-28 Sept., 2004.	Anca Petronela Ilascu, Laura Elena Udrea and Vasile Badescu <i>INCDFT-IFT Iași</i>
80.	Inner Eddy Current Transducer with Rotating Magnetic Field; Application to Examination of Fuel Channels of PHWR Nuclear Power Plant	The 4 <sup>th</sup> Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING, NOVEMBER 26, 2004 Bucharest, Romania, ATEE – 2004	Lalita Udpa*, R. Grimberg, S.Udpa*, Adriana.Savin, <i>INCDFT-IFT Iasi Michigan State University, East Lansing, USA</i>
81.	Detection and Measurement of Fatigue State in Ferromagnetic and Austenitic Steels using Eddy Current Sensors Arrays	The 4 <sup>th</sup> Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING, NOVEMBER 26, 2004 Bucharest, Romania, ATEE – 2004	R. Grimberg, A. Savin, L. Udpa*, S. Udpa*, R. Steigmann, <i>INCDFT-IFT Iasi Michigan State University, East Lansing, USA</i>
<b>Anul 2005</b>			
1.	Surface magnetic characterization of FeSiB Amorphous ribbons	INTERMAG 2005 – The 2005 IEEE International Magnetics Conference, Nagoya, Japonia, 4 – 8 aprilie 2005	M. Neagu, M. Dobromir, G. Popa, H. Chiriac, Gh. Singurel, C. Hison <i>INCDFT-IFT Iași Univ. Al.I. Cuza, Iasi</i>
2.	New FeNbB based bulk amorphous and nanocomposite soft magnetsfor applications	INTERMAG 2005 – The 2005 IEEE International Magnetics Conference, Nagoya, Japonia, 4 – 8 aprilie 2005	H. Chiriac, N. Lupu <i>INCDFT-IFT Iași</i>
3.	New magnetic nanosized and nanocomposite materials	ISMANAM – 12th International Symposium on Metastable and Nano-Materials, Paris, Franța, 4 – 7 iulie 2005	H. Chiriac <i>INCDFT-IFT Iași</i>
4.	Synthesis and magnetic properties of nanopowders containing MgFe <sub>2</sub> O <sub>4</sub> spinel ferrites from substituted layered double hydroxides as precursors	ISMANAM – 12th International Symposium on Metastable and Nano-Materials, Paris, Franța, 4 – 7 iulie 2005	G. Carja, H. Chiriac, N. Lupu, H. Niiyama <i>INCDFT-IFT Iași Institutul de Tehnologie din Tokyo, Tokyo,</i>

			<i>Japonia</i>
5.	SANS and X-ray powder diffraction investigations of the hydrogen sorption in nanocrystalline MgH <sub>2</sub> powders with additions	ISMANAM – 12th International Symposium on Metastable and Nano-Materials, Paris, Franța, 4 – 7 iulie 2005	N. Lupu, M. Vennström, G. Fragneto, G. Vaughan, A. Kvick, K.F. Aguy-Zinsou, T. Klassen, A.R. Yavari <i>INCDFT-IFT Iași</i> <i>Karolinska Institutet, Sweden</i> <i>Institut Laue Langevin, France</i> <i>LTPCM, CNRS, Grenoble, France</i>
6.	Influence of the additive element on microstructure and magnetic properties of FePtNb and FePt/Nb thin films	ISMANAM – 12th International Symposium on Metastable and Nano-Materials, Paris, Franța, 4 – 7 iulie 2005	M. Grigoras, M. Urse, H. Chiriac, A. – E. Moga <i>INCDFT-IFT Iași</i>
7.	Preparation and Magnetic Properties of Ni and Co Nano and Microparticles for Biomedical Applications	EUROMAT 2005, The European Congress on Advanced Materials and Processes, Praga, Republica Cehă, 5 – 8 septembrie 2005	H. Chiriac, A.E. Moga, D.D. Herea <i>INCDFT-IFT Iași</i>
8.	Fabrication and characterization of 3-D shaped Fe-(Ga, Al) polycrystalline magnetostrictive alloys	EUROMAT 2005, The European Congress on Advanced Materials and Processes, Praga, Republica Cehă, 5 – 8 septembrie 2005	H. Chiriac, N. Lupu <i>INCDFT-IFT Iași</i>
9.	New FeCoNiZrNbB bulk amorphous and nanocrystalline soft magnetic for applications	EUROMAT 2005, The European Congress on Advanced Materials and Processes, Praga, Republica Cehă, 5 – 8 septembrie 2005	H. Chiriac, N. Lupu, M. Tibu <i>INCDFT-IFT Iași</i>
10.	Size effect on GMI in amorphous magnetic wires	EUROMAT 2005, The European Congress on Advanced Materials and Processes, Praga, Republica Cehă, 5 – 8 septembrie 2005	H. Chiriac, M. Tibu, S. Corodeanu <i>INCDFT-IFT Iași</i>
11.	Magnetic and magnetoresistive properties of Fe-based amorphous thin films	SMM17, Soft Magnetic Materials Conference, Bratislava, Slovacia, 7 – 9 septembrie 2005	M. Neagu, H. Chiriac, M. Dobromir, G. Popa, E. Hristoforou, N. Apetroaei, C. Hison <i>INCDFT-IFT Iași</i> <i>Univ. Al.I.Cuza, Iasi</i> <i>NTUA, Athens, Greece</i> <i>Univ Naples, Italy</i>
12.	Preparation and magnetic properties of Co-P and Co-Ni-P amorphous nanowire arrays	SMM17, Soft Magnetic Materials Conference, Bratislava, Slovacia, 7 – 9 septembrie 2005	H. Chiriac, A. E. Moga, C. Gherasim <i>INCDFT-IFT Iași</i>
13.	Small electrical	SMM17, Soft Magnetic Materials	H. Chiriac, C.

	generator using magnetostrictive amorphous ribbons	Conference, Bratislava, Slovacia, 7 – 9 sptembrie 2005	Tyren, M. Tibu, N. Lupu <i>INCDFT-IFT Iași</i>
14.	The evolution of magnetic, electrical and structural properties of nanogranular [FeCoBN/SiN] <sub>x</sub> n thin films	SMM17, Soft Magnetic Materials Conference, Bratislava, Slovacia, 7 – 9 sptembrie 2005	M. Urse, H. Chiriac, M. Grigoras, M. Tibu <i>INCDFT-IFT Iași</i>
15.	Magnetostatic intercalations between amorphous glass covered wires	SMM17, Soft Magnetic Materials Conference, Bratislava, Slovacia, 7 – 9 sptembrie 2005	H. Chiriac, M. Tibu, S. Corodeanu <i>INCDFT-IFT Iași</i>
16.	MI magnetic sensor for biomedical applications	ISEM 2005 – The 12 <sup>th</sup> International Symposium on Interdisciplinary Electromagnetic, Mechanic & Biomedical Problems, Bad Gastein, Austria, 12 – 14 septembrie 2005	D. D. Herea, H. Chiriac <i>INCDFT-IFT Iași</i>
17.	Investigation on the Diameter of Sensing Element in Relation to Sensitivity in Orthogonal Fluxgate	ISEM 2005 – The 12 <sup>th</sup> International Symposium on Interdisciplinary Electromagnetic, Mechanic & Biomedical Problems, Bad Gastein, Austria, 12 – 14 septembrie 2005	J. Fan, X. P. Li, X.B. Qian, H. Chiriac <i>INCDFT-IFT Iași Univ. Singapore</i>
18.	Magnetic and magnetotransport properties of new Nanocomposite Fe-(Au,Cu)-B alloys	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	N. Lupu, H. Chiriac, M. Tibu, and A. Inoue <i>INCDFT-IFT Iași IMT Sendai, Japan</i>
19.	MI magnetic sensor for biomedical applications	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	H. Chiriac, D.D. Herea, and M. Tibu <i>INCDFT-IFT Iași</i>
20.	Crystalline structure, transport and magnetic properties of Sr <sub>2</sub> Fe <sub>1-x</sub> Ni <sub>x</sub> MoO <sub>6</sub> compounds	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	M.–L. Craus, Liviu Bîlteanu, Catalina Neculita and Mihai Lozovan <i>INCDFT-IFT Iași LNF – JINR Dubna, Russia University of Bucharest, "Al. I. Cuza" University, Iasi</i>
21.	Influence of the microstructure on extrinsic magnetoresistance in Sr <sub>2</sub> Fe <sub>0.9</sub> Gd <sub>0.1</sub> Mo <sub>1-x</sub> W <sub>x</sub> O <sub>6</sub> double perovskites	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	M.–L. Craus, Catalina Neculita, Liviu Bîlteanu and Mihai Lozovan <i>INCDFT-IFT Iași LNF – JINR Dubna, Russia University of Bucharest, "Al. I. Cuza" University, Iasi</i>
22.	The Supplementary Compression Stresses in the Fe <sub>77.5</sub> Si <sub>7.5</sub> B <sub>15</sub> Microwires	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie	Iordana Astefanoaei, Daniel Radu, Horia Chiriac

		2005	"Al. I. Cuza" University, Iasi INCDFT-IFT Iași
23.	The residual stresses of FeBSi – type alloy in an ingot mould	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	Daniel Radu, Iordana Astefanoaei, Horia Chiriac "Al. I. Cuza" University, Iasi INCDFT-IFT Iași
24.	The effect of the space layer thickness on magnetic properties and microstructure of NdFeB.NbCu multilayer films	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	M. Grigoras, H. Chiriac, M. Urse INCDFT-IFT Iași
25.	New NdFeB – based bulk "exchange-spring"-type permanent magnets	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	H. Chiriac, N. Lupu, A. Stancu, L. Stoleriu, P. Postolache INCDFT-IFT Iași "Al. I. Cuza" University, Iasi
26.	Surface magnetic characterization of Fe – rich amorphous ribbons	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	M. Dobromir, M. Neagu and H. Chiriac "Al. I. Cuza" University, Iasi INCDFT-IFT Iași
27.	Optical and magneto-optical studies of Fe–Cu–Nb–Si–B amorphous thin films deposited by pulsed laser ablation	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	M. Dobromir, M. Neagu, Gh. Popa, H. Chiriac, Gh. Singurel and C. Hison "Al. I. Cuza" University, Iasi INCDFT-IFT Iași Univ. Napoli, Italy
28.	Synthesis and characterization of Co and Ni nano and microparticles for biomedical applications	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	H. Chiriac, A.E. Moga, C. Gherasim, D.D. Herea INCDFT-IFT Iași
29.	On the preparation and magnetic properties of Co – P and Co-Ni-P amorphous nanowire arrays	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	H. Chiriac, A.E. Moga, C. Gherasim INCDFT-IFT Iași
30.	Martensitic transformation monitorized by magnetic field at some heusler intermetallic compounds based on Ni–Mn–Ga(Al)	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	M.-L. Craus and Viorel Dobrea LNF – JINR Dubna, Russia INCDFT-IFT Iași
31.	Thermal analyses of transition temperatures of CuAlNi shape memory alloy modified	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie	Chiriac H and Viorel Dobrea INCDFT-IFT Iași

	by Mn and Ti additions	2005	
32.	High frequency characteristics of FeCoB/SiO <sub>2</sub> nanogranular thin films	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	M. Urse, H. Chiriac, M. Tibu and M. Grigoras <i>INCDFT-IFT Iași</i>
33.	Magnetic interactions in NdFeB bulk permanent magnets with additions	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	H. Chiriac, N. Lupu, M. Văleanu, V. Kuncser <i>INCDFT-IFT Iași IFTM, Bucuresti</i>
34.	Magnetic and structural characterization of Fe – Ni films developed for MR field sensor applications	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	Petrou, P. Dimitropoulos, S. Diplas, H. Chiriac, E. Hristoforou <i>INCDFT-IFT Iași NTUA Athens, Greece</i>
35.	Cotton-Mouton Effects in Ferrofluid Emulsions Prepared by Flow Focusing Technique	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	V. Badescu, Rodica Badescu, Gabriela Fosa <i>INCDFT-IFT Iași Univ. Tehnica "Ghe. Asachi, Iasi</i>
36.	On Linear Dichroism and Birefringence of a O/W Magnetic Emulsion	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	V. Badescu, Gabriela Fosa, Rodica Badescu <i>INCDFT-IFT Iași</i>
37.	A Theoretical Approach of the Heat Transfer in Nanofluids	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	S.H. Mohorianu, M. Agop <i>INCDFT-IFT Iași Univ. Tehnica "Ghe. Asachi, Iasi</i>
38.	Structure Property Relationship for Magnetic Nanostructures by it Simulations Techniques	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	S.H. Mohorianu, F. V. Rusu <i>INCDFT-IFT Iași</i>
39.	Nanocrystalline Structure of Sn Substituted Mg Ferrite and Humidity Sensitivity	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	Corneliu Doroftei, Nicolae Rezlescu, Elena Rezlescu, Paul Dorin Popa <i>INCDFT-IFT Iași</i>
40.	Nanogranulated Magnetic Oxide Compounds Doped with Sn and /or Mo for Reducing Gas Detection	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	Nicolae Rezlescu, Corneliu Doreftei, Elena Rezlescu, Paul Dorin Popa, Nicoleta Iftimie <i>INCDFT-IFT Iași</i>
41.	In Vitro Studies of Magnetic Carrier Particles Capture for Magnetic Drug Delivery	ANMM 2005, The 3 <sup>rd</sup> International Workshop on Amorphous and Nanocomposite Magnetic Materials, Iasi, Romania, 19 – 21 septembrie 2005	O. Rotariu, L.E. Udrea, N.J.C. Strachan, S.D. Heys, A.C. Schofield, F.J. Gilbert, V. Badescu <i>INCDFT-IFT Iași Univ. Aberdeen, UK</i>



42.	Synthesis and magnetic properties of Co and Ni based nanostructures	CAS 2005, The 2005 International Semiconductor Conference, Sinaia, Romania, 3 – 5 octombrie 2005	H. Chiriac, A.E. Moga, C. Gherasim <i>INCDFT-IFT Iași</i>
43.	Multilayer granular thin films as the materials for magnetic microinductors	CAS 2005, The 2005 International Semiconductor Conference, Sinaia, Romania, 3 – 5 octombrie 2005	M. Urse, H. Chiriac, M. Grigoras, M. Tibu <i>INCDFT-IFT Iași</i>
44.	Magnetoimpedance effect in new glassy Fe – Au (Cu)-B alloys	MMM 2005 – The 50 <sup>th</sup> Annual Conference on Magnetism and Magnetic Materials, San Jose, CA, 30 octombrie, 2005	N. Lupu, H. Chiriac, M. Tibu, A. Inoue <i>INCDFT-IFT Iași</i> <i>IMT, Sendai, Japan</i>
45.	Magnetic micro- and nanoparticles detection using the giant magneto-impedance (GMI) effect	MMM 2005 – The 50 <sup>th</sup> Annual Conference on Magnetism and Magnetic Materials, San Jose, CA, 30 octombrie, 2005	H. Chiriac, A.E. Moga, M. Tibu, D. D. Herea, C. Gherasim <i>INCDFT-IFT Iași</i>
46.	Eddy current examination of carbon fibres in carbon-epoxy composites and Kevlar	The 8 <sup>th</sup> INTERNATIONAL CONFERENCE OF THE SLOVENIAN SOCIETY FOR NON-DESTRUCTIVE TESTING "Application of Contemporary Non-Destructive Testing in Engineering" Portorož, Slovenia, 1-3 September 2005	R. Grimberg, Adriana Savin, Rozina Steigmann, Alina Bruma <i>INCDFT-IFT Iași</i> <i>Michigan State University, East Lansing, USA</i>
47.	Nondestructive examination of fuel channels in PHWR nuclear power plants	The 8 <sup>th</sup> INTERNATIONAL CONFERENCE OF THE SLOVENIAN SOCIETY FOR NON-DESTRUCTIVE TESTING "Application of Contemporary Non-Destructive Testing in Engineering" Portorož, Slovenia, 1-3 September 2005	Adriana Savin, Lalita Udpa, Rozina Steigmann, R. Grimberg, S. Udpa <i>INCDFT-IFT Iași</i> <i>Michigan State University, East Lansing, USA</i>
48.	Ultrasound and visual examination of wood based products	The 8 <sup>th</sup> INTERNATIONAL CONFERENCE OF THE SLOVENIAN SOCIETY FOR NON-DESTRUCTIVE TESTING "Application of Contemporary Non-Destructive Testing in Engineering" Portorož, Slovenia, 1-3 September 2005	R. Grimberg, Adriana Savin, Rozina Steigmann, Alina Bruma <i>INCDFT-IFT Iași</i>
49.	Structure and humidity sensitivity of some finely grained polycrystalline ferrites	The 5 <sup>th</sup> International Conference on Micromechanics of Granular Media, Stuttgart, Germany, 18-22 July, 2005	N. Rezlescu, E. Rezlescu, F. Tudorache, C. Doroftei and P. D. Popa <i>INCDFT-IFT Iași</i>
50.	Effect of PbO on the properties of ferrite compound $Ni_{0.36}Zn_{0.64}Fe_2O_4$	The 5 <sup>th</sup> International Conference on Micromechanics of Granular Media, Stuttgart, Germany, 18-22 July, 2005	N. Rezlescu and E. Rezlescu <i>INCDFT-IFT Iași</i>
51.	Fine Sr and Ba hexaferrite powders used in magnetic recording prepared by self combustion	The 5 <sup>th</sup> International Conference on Micromechanics of Granular Media, Stuttgart, Germany, 18-22 July, 2005	N. Rezlescu, P. D. Popa, E. Rezlescu and C. Doroftei <i>INCDFT-IFT Iași</i>
52.	Probabilistic model for fatigue accumulation in	The Fifth International Congress in Materials Science and Engineering,	V.Palihovici, V.Goanta,R.

	superconductor magnets from ITER reactor	SIM 2005, IASI – ROMANIA, , May 26-28, 2005	Grimberg, Adriana Savin, Rozina Steigmann, A.Andreescu <i>INCDFT-IFT Iași Tech Univ Gh Asachi, Iasi</i>
53.	Evaluation of fatigue at AISI 316L austenitic steels using eddy current microsensors array	The Fifth International Congress in Materials Science and Engineering, SIM 2005, IASI – ROMANIA, , May 26-28, 2005	Adriana Savin, Rozina Steigmann, R. Grimberg, A. Andree scu, V. Palihovici, V. Goanta <i>INCDFT-IFT Iași Tech Univ Gh Asachi, Iasi</i>
54.	Determination of physical-mechanical parameters of multilayered composite materials through ultrasonic methods	The Fifth International Congress in Materials Science and Engineering, SIM 2005, IASI – ROMANIA, , May 26-28, 2005	Adriana Savin, Rozina Steigmann, R. Grimberg <i>INCDFT-IFT Iași</i>
55.	Electromagnetic evaluation of nanostructured materials and some MEMS devices	The Fifth International Congress in Materials Science and Engineering, SIM 2005, IASI – ROMANIA, , May 26-28, 2005	R. Grimberg, Adriana Savin, Rozina Steigmann, A. Andreescu, Alina Bruma <i>INCDFT-IFT Iași</i>
56.	Microsensors array for integrity evaluation of flexible multi-traces circuits	The Fifth International Congress in Materials Science and Engineering, SIM 2005, IASI – ROMANIA, , May 26-28, 2005	Adriana Savin, Rozina Steigmann, R. Grimberg <i>INCDFT-IFT Iași</i>
57.	Porous nickel ferrite for semiconducting gas sensor	The Sensors & their Applications XIII Conference, University of Greenwich at Medway, Chatham Maritime, Kent, United Kingdom, 6-8 September 2005	E. Rezlescu, N. Ifimie, P.D. Popa, N. Rezlescu <i>INCDFT-IFT Iași</i>
58.	Study of some Mg-based ferrites as humidity sensors	The Sensors & their Applications XIII Conference, University of Greenwich at Medway, Chatham Maritime, Kent, United Kingdom, 6-8 September 2005	N. Rezlescu, E. Rezlescu, C. Doroftei and P.D. Popa <i>INCDFT-IFT Iași</i>
59.	3-D Shaped Fe-(Ga,Al) Polycrystalline Magnetostrictive Alloys Versus Fe-Based Magnetostrictive Amorphous Magnetic Ribbons in Applications	IEEE ROMSC 2005, IEEE Magnetics Society Chapter of the Romania Section, Iași, Romania, 24 – 26 octombrie 2005	N. Lupu, M. Tibu, C. Tyren, H. Chiriac <i>INCDFT-IFT Iași</i>
60.	Amorphous, Nanostructured and Nanometer-Size Magnetic Materials for Interdisciplinary Applications	IEEE ROMSC 2005, IEEE Magnetics Society Chapter of the Romania Section, Iași, Romania, 24 – 26 octombrie 2005	H. Chiriac <i>INCDFT-IFT Iași</i>
61.	Size Effect on GMI in Amorphous Magnetic Wires	IEEE ROMSC 2005, IEEE Magnetics Society Chapter of the Romania Section, Iași, Romania, 24 – 26 octombrie 2005	H. Chiriac, M. Tibu, S. Corodeanu <i>INCDFT-IFT Iași</i>

62.	Stress distribution evaluation in amorphous glasscovered magnetic wires	IEEE ROMSC 2005, IEEE Magnetics Society Chapter of the Romania Section, Iași, Romania, 24 – 26 octombrie 2005	H. Chiriac, V. Goian, S. Corodeanu <i>INCDFT-IFT Iași</i>
63.	FMR measurements in CoFeSiB glass covered microwires with differed geometries	IEEE ROMSC 2005, IEEE Magnetics Society Chapter of the Romania Section, Iași, Romania, 24 – 26 octombrie 2005	H. Chiriac, G. Ababei, S. Corodeanu <i>INCDFT-IFT Iași</i>
64.	Magnetic Properties of Fe-Si-B Amorphous Thin Films Deposited by Pulsed Laser Ablation	IEEE ROMSC 2005, IEEE Magnetics Society Chapter of the Romania Section, Iași, Romania, 24 – 26 octombrie 2005	M. Dobromir, M. Neagu, G. Popa, H. Chiriac, G. Singurel, C. Hison <i>INCDFT-IFT Iași</i>
65.	Distribution of the Internal Stresses in DC Joule-Heated Fe <sub>77.5</sub> B <sub>15</sub> Si <sub>7.5</sub> Conventional Amorphous Microwires	IEEE ROMSC 2005, IEEE Magnetics Society Chapter of the Romania Section, Iași, Romania, 24 – 26 octombrie 2005	I. Aștefănoaei, D. Radu, H. Chiriac <i>INCDFT-IFT Iași</i>
66.	Induced Residual Stresses in the Preparation Process of the Glass-Covered-Amorphous Magnetic Microwires	IEEE ROMSC 2005, IEEE Magnetics Society Chapter of the Romania Section, Iași, Romania, 24 – 26 octombrie 2005	I. Aștefănoaei, D. Radu, H. Chiriac <i>INCDFT-IFT Iași</i>
67.	Fine hexaferrite particle powders as magnetic recording media, prepared by coprecipitation-selcombustion method	The European Conference PHYSICS OF MAGNETISM'05, Poznan, Poland, June 24-27, 2005	N.Rezlescu, C. Doroftei, E.Rezlescu and P.D.Popa <i>INCDFT-IFT Iași</i>
68.	On the magnetic glass-ceramic containing fine Li and Ba ferrite crystals	The European Conference PHYSICS OF MAGNETISM'05, Poznan, Poland, June 24-27, 2005	E. Rezlescu, C. Doroftei and N. Rezlescu <i>INCDFT-IFT Iași</i>
69.	Effect of PbO on the properties of ferrite compound Ni <sub>0.36</sub> Zn <sub>0.64</sub> Fe <sub>2</sub> O <sub>4</sub>	The Fifth Powders and Grains International Conference on the Micromecanics of Granular Media, University of Stuttgart, Stuttgart, Germany, July 18-22, 2005.	N. Rezlescu and E. Rezlescu <i>INCDFT-IFT Iași</i>
70.	Fine Sr and Ba hexaferrite powders used in magnetic recording prepared by self combustion	The Fifth Powders and Grains International Conference on the Micromecanics of Granular Media, University of Stuttgart, Stuttgart, Germany, July 18-22, 2005.	N. Rezlescu, P. D. Popa and E. Rezlescu <i>INCDFT-IFT Iași</i>
71.	Structure and humidity sensitivity of some finely grained polycrystalline ferrites	The Fifth Powders and Grains International Conference on the Micromecanics of Granular Media, University of Stuttgart, Stuttgart, Germany, July 18-22, 2005.	N. Rezlescu, E. Rezlescu, F. Tudorache and P. D. Popa <i>INCDFT-IFT Iași</i>
72.	Study of some Mg-based ferrites as humidity sensors	Sensors & their Applications XIII, University of Greenwich at Medway, Chatham Maritime, Kent, England, September 6-8, 2005	N.Rezlescu, E.Rezlescu, C. Doroftei and P.D.Popa <i>INCDFT-IFT Iași</i>
73.	Porous nickel ferrite for semiconducting gas sensor	Sensors & their Applications XIII, University of Greenwich at Medway, Chatham Maritime, Kent, England,	E.Rezlescu, N.Iftimie, P.D.Popa and N.Rezlescu

		September 6-8, 2005	<i>INCDFT-IFT Iași</i>
74.	Nanocrystalline structure of Sn substituted Mg ferrite and humidity sensitivity	3 <sup>rd</sup> International Workshop Amorphous and Nanocomposite Magnetic Material-ANMM 2005, Iasi, Septemeber 19-21, 2005	C. Doroftei, N. Rezlescu, E. Rezlescu and P. D. Popa <i>INCDFT-IFT Iași</i>
75.	Nanogranulated magnetic oxide compounds doped with Sn and/or Mo for reducing gas detection	3 <sup>rd</sup> International Workshop Amorphous and Nanocomposite Magnetic Material-ANMM 2005, Iasi, Septemeber 19-21, 2005	N. Rezlescu, C. Doroftei, E. Rezlescu, P. D. Popa and N. Iftimie <i>INCDFT-IFT Iași</i>
76.	The Oxide Magnetic Ceramic Semiconducting as Gas Sensor	International Conference on Fundamental and Applied Research in Physics, Universitatea Iași, October 26-29, 2005	N.Iftimie, E.Rezlescu, P.D.Popa and N.Rezlescu <i>INCDFT-IFT Iași</i>
77.	Gas sensitivity of nanocrystalline nickel ferrite	International Conference on Fundamental and Applied Research in Physics, Universitatea Iași, October 26-29, 2005	N.Iftimie, E.Rezlescu, P.D.Popa and N.Rezlescu <i>INCDFT-IFT Iași</i>
78.	Influence of copper ions on the structure and electromagnetic properties of MgZn ferrite	International Conference on Fundamental and Applied Research in Physics, Universitatea Iași, October 26-29, 2005	E. Rezlescu, L. Sachelarie and N. Rezlescu <i>INCDFT-IFT Iași</i>
79.	Microstructure and humidity sensitive properties of MgFe <sub>2</sub> O <sub>4</sub> ferrite with Sn and Mo substitutions prepared by autocombustion method	International Conference on Fundamental and Applied Research in Physics, Universitatea Iași, October 26-29, 2005	C. Doroftei, E. Rezlescu, N. Rezlescu and P. D. Popa <i>INCDFT-IFT Iași</i>
80.	The influence of the technological factors on the Sr hexaferrites having La substitutes prepared by autocombustion method	International Conference on Fundamental and Applied Research in Physics, Universitatea Iași, October 26-29, 2005	C. Doroftei, E. Rezlescu, P. D. Popa and N. Rezlescu <i>INCDFT-IFT Iași</i>
81.	Targeting Magnetic Carrier Particles In Tumour Microvasculation – A Numerical Study	6th International Balkan Workshop on Applied Physics," OVIDIUS University, Constanta, July 5-7, 2005.	Ovidiu ROTARIU, Laura-Elena UDREA, Norval J.C. STRACHAN, and Vasile BADESCU <i>INCDFT-IFT Iași</i> <i>University of Aberdeen, UK</i>
82.	A Dynamic Way For Magnetic Separation Of Ferrofluids	6th International Balkan Workshop on Applied Physics," OVIDIUS University, Constanta, July 5-7, 2005.	V. BĂDESCU, O. ROTARIU, Gabriela FOȘA and Rodica BĂDESCU <i>INCDFT-IFT Iași</i> <i>Universitatea Tehnică "Gh. Asachi" Iasi</i>
83.	On Relaxation Of Birefringence In Ferrofluids	6th International Balkan Workshop on Applied Physics," OVIDIUS University, Constanta, July 5-7,	Gabriela FOȘA and Rodica BĂDESCU, V. BĂDESCU, Laura

		2005.	E. UDREA <i>Universitatea Tehnică "Gh. Asachi" Iasi INCDFT-IFT Iași</i>
84.	Cotton-Mouton Rotation In A Ferrofluid Emulsion	International Conference on Fundamental and Applied Research in Physics (FARPhys 2005), "Al. I. Cuza" University Iasi, October 26-29, 2005.	V. Bădescu, Rodica Bădescu and Gabriela Fosa <i>INCDFT-IFT Iași Universitatea Tehnică "Gh. Asachi" Iasi</i>
85.	MAGNETO DICHROISM AND BIREFRINGENCE OF A O/W MAGNETIC EMULSION	International Conference on Fundamental and Applied Research in Physics (FARPhys 2005), "Al. I. Cuza" University Iasi, October 26-29, 2005	V. Bădescu, Gabriela Fosa and Rodica Bădescu <i>INCDFT-IFT Iași Universitatea Tehnică "Gh. Asachi" Iasi</i>
86.	Magnetic Carrier Particles Capture In Capillary Tubes-In Vitro Simulation Of Magnetic Drug Delivery	International Conference on Fundamental and Applied Research in Physics (FARPhys 2005), "Al. I. Cuza" University Iasi, October 26-29, 2005	O. Rotariu, L.E. Udrea, N.J. Strachan and V. Bădescu <i>INCDFT-IFT Iași University of Aberdeen, UK</i>
87.	Crystalline Structure, Transport and Magnetic Properties of $Sr_2Fe_{1-x}Ni_xMoO_6$ compounds	3rd International Workshop on Amorphous and Nanocomposite Magnetic Materials - ANMM 2005, Iasi, September 19-21, 2005	M. – L. Craus, Liviu Bîlteanu, Cătălina Neculiță M. Lozovan <i>INCDFT-IFT Iași Gh Asachi Univ. Iasi</i>
88.	Influence of the microstructure on extrinsic magnetoresistance in $Sr_2Fe_{0.9}Gd_{0.1}Mo_{1-x}W_xO_6$ double perovskites	3rd International Workshop on Amorphous and Nanocomposite Magnetic Materials - ANMM 2005, Iasi, September 19-21, 2005	M. – L. Craus, Cătălina Neculiță, Liviu Bîlteanu M. Lozovan <i>INCDFT-IFT Iași Gh Asachi Univ. Iasi</i>
89.	Structure and magnetoresistance of $La_{1-x}Ca_xMn_{0.9}Cu_{0.1}O_3$ manganites	International Conference on Fundamental and Applied Research in Physics FARPhys 2005 , October 26 <sup>nd</sup> -28 <sup>nd</sup> , Iasi, Romania	Mihail-Liviu Craus Mihai Lozovan <i>INCDFT-IFT Iași</i>
90.	Extrinsic magnetoresistance of some $((Tb, Gd)_{1-x}Sm_x)_{0.6}Sr_{0.4}MnO_3$ manganites	Romanian International Conference on Chemistry and Chemical Engineering- RICCCE XIV, September 22 <sup>nd</sup> – 24 <sup>th</sup> , 2005, Bucharest, Romania	Mihail-Liviu Craus, Carmen Mita , Nicoleta Cornei, Mihai Lozovan <i>INCDFT-IFT Iași Gh Asachi Univ. Iasi</i>
91.	High temperature transport and structure of some $La_{1-x}Ca_xMn_{0.9}Cu_{0.1}O_3$ compounds	The Fifth International Congress in Materials Science and Engineering, Iasi, May, 26-27 <sup>th</sup> , 2005	Mihail-Liviu Craus, Mihai Lozovan <i>INCDFT-IFT Iași</i>
92.	On the functional study of a thermostatic device based on Invar alloys	The Fifth International Congress in Materials Science and Engineering, Iasi, May, 26-27 <sup>th</sup> , 2005	Mihai Lozovan Horia Chiriac <i>INCDFT-IFT Iași</i>

93.	Structural properties and transition temperatures of polycrystalline NiMnGa shape memory alloys	The Fifth International Congress in Materials Science and Engineering, Iasi, May, 26-27 <sup>th</sup> , 2005	V. Dobrea, H. Chiriac, M.-L Craus <i>INCDFT-IFT Iași</i>
<b>Anul 2006</b>			
1.	High sensitive magnetic GMI-based sensing elements array for biosensor prototype	International Magnetism Conference, Intermag 2006, San Diego, California, SUA, 8-12 May, 2006	H. Chiriac, DD Herea, S Corodeanu <i>INCDFT-IFT Iași</i>
2.	New NdFeB-based bulk "exchange spring" - type permanent magnets. Experimental and micromagnetic FORC analysis	International Magnetism Conference, Intermag 2006, San Diego, California, SUA, 8-12 May, 2006	H. Chiriac, N Lupu, L Stoleriu, P Postolache, A Satncu <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iasi</i>
3.	New 3-D shaped Fe-(Ga,Al) magnetostrictive alloy	International Magnetism Conference, Intermag 2006, San Diego, California, SUA, 8-12 May, 2006	N. Lupu, H. Chiriac <i>INCDFT-IFT Iași</i>
4.	GMI effect in amorphous glass covered microwires as a function of the internal induced stresses	International Magnetism Conference, Intermag 2006, San Diego, California, SUA, 8-12 May, 2006	Chiriac, H; Goian, V; Corodeanu, S <i>INCDFT-IFT Iași</i>
5.	Influence of DC Joule heating on the domain structures of Fe-B-Si amorphous glass-covered magnetic wires	International Magnetism Conference, Intermag 2006, San Diego, California, SUA, 8-12 May, 2006	I Astefanoaei, A. Stancu, H. Chiriac <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iasi</i>
6.	Magnetic nanocomposite materials: preparation, characterization and applications	International Symposium on Metastable and Nano Materials (ISMANAM) will be held in Warsaw, Poland, on 27 <sup>th</sup> - 31 <sup>st</sup> August, 2006	H. Chiriac <i>INCDFT-IFT Iași</i>
7.	New 3-D shaped polycrystalline magnetostrictive materials	International Symposium on Metastable and Nano Materials (ISMANAM) will be held in Warsaw, Poland, on 27 <sup>th</sup> - 31 <sup>st</sup> August, 2006	N. Lupu, H. Chiriac, G. Ababei <i>INCDFT-IFT Iași</i>
8.	From substituted hydrotalcite-like anionic clays to nanopowders containing MgFe <sub>2</sub> O <sub>4</sub> spinel ferrites with tailored magnetic properties	International Symposium on Metastable and Nano Materials (ISMANAM) will be held in Warsaw, Poland, on 27 <sup>th</sup> - 31 <sup>st</sup> August, 2006	G. Carja, H. Chiriac, N. Lupu <i>INCDFT-IFT Iași</i>
9.	Elastic properties and mechanical behavior of Fe-based and Co-based amorphous wires and microwires	International Symposium on Metastable and Nano Materials (ISMANAM) will be held in Warsaw, Poland, on 27 <sup>th</sup> - 31 <sup>st</sup> August, 2006	H. Chiriac, V. Dobrea, N. Lupu <i>INCDFT-IFT Iași</i>
10.	Dipolar magnetic interactions in magnetic amorphous wires	III JOINT EUROPEAN MAGNETIC SYMPOSIA, JEMS'06, San Sebastian, Spain, 26-30 June, 2006	H Chiriac, S Corodeanu, V. Goian <i>INCDFT-IFT Iași</i>
11.	New NdFeB-based bulk "exchange spring" - type permanent magnets. Experimental	III JOINT EUROPEAN MAGNETIC SYMPOSIA, JEMS'06, San Sebastian, Spain, 26-30 June, 2006	H. Chiriac, N Lupu, L Stoleriu, P Postolache, A Stancu

	and micromagnetic FORC analysis		<i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iași</i>
12.	Surface and bulk magnetic behavior of Fe-Si-B amorphous thin films	III JOINT EUROPEAN MAGNETIC SYMPOSIA, JEMS'06, San Sebastian, Spain, 26-30 June, 2006	Dobromir, M; Neagu, M; Popa, G, et al. <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iași</i>
13.	Influence of the spacer layer on microstructure and magnetic properties of [NdFeB/(NbCu)] x n thin films	III JOINT EUROPEAN MAGNETIC SYMPOSIA, JEMS'06, San Sebastian, Spain, 26-30 June, 2006	Chiriac, H; Grigoras, M; Urse, M <i>INCDFT-IFT Iași</i>
14.	Magnetic anisotropy of conventional amorphous wires	III JOINT EUROPEAN MAGNETIC SYMPOSIA, JEMS'06, San Sebastian, Spain, 26-30 June, 2006	I Astefanoaei, A. Stancu, H. Chiriac <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iași</i>
15.	High magnetic moment and magnetic behaviour of new glassy Fe-(Au, Cu)-B alloys	III JOINT EUROPEAN MAGNETIC SYMPOSIA, JEMS'06, San Sebastian, Spain, 26-30 June, 2006	N Lupu, JM Greneche, A. Inoue, H. Chiriac <i>INCDFT-IFT Iași Université du Maine, France IMT, Sendai, Japan</i>
16.	The effect of DC Joule heating on magnetic structure of conventional amorphous wires	III JOINT EUROPEAN MAGNETIC SYMPOSIA, JEMS'06, San Sebastian, Spain, 26-30 June, 2006	I Astefanoaei, A. Stancu, H. Chiriac <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iași</i>
17.	Preparation and magnetic properties of electroplated Fe and Cu composite coatings with embedded Ni nanoparticles	III JOINT EUROPEAN MAGNETIC SYMPOSIA, JEMS'06, San Sebastian, Spain, 26-30 June, 2006	H. Chiriac, AE Moga, FT Todosi <i>INCDFT-IFT Iași</i>
18.	Magnetic domains structure of DC joule-heated conventional amorphous wires	6th European Conference on Magnetic Sensors and Actuators, Bilbao, Spain, July 3-5 2006	I. Astefanoaei, A. Stancu, and H. Chiriac <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iași</i>
19.	Energy recover device based on magnetostrictive amorphous magnetic ribbons	6th European Conference on Magnetic Sensors and Actuators, Bilbao, Spain, July 3-5 2006	H. Chiriac, M. Tibu, C. Tyren, and N. Lupu <i>INCDFT-IFT Iași</i>
20.	High magnetostrictive cobalt ferrite for sensor application	6th European Conference on Magnetic Sensors and Actuators, Bilbao, Spain, July 3-5 2006	O. Caltun, B. P. Rao, I. Dumitru, N. Lupu, and H. Chiriac <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iași</i>
21.	Magnetic domains structure of conventional amorphous wires	6th European Conference on Magnetic Sensors and Actuators, Bilbao, Spain, July 3-5 2006	I. Astefanoaei, A. Stancu, and H. Chiriac <i>INCDFT-IFT Iași</i>

22.	New glassy Fe-(Au,Cu)-B alloys for sensing applications. Magnetoimpedance versus microstructure	6th European Conference on Magnetic Sensors and Actuators, Bilbao, Spain, July 3-5 2006	N. Lupu, H. Chiriac, M. Tibu, and S. Corodeanu <i>INCDFT-IFT Iași</i>
23.	Lift-step motors based on magnetostrictive materials	6th European Conference on Magnetic Sensors and Actuators, Bilbao, Spain, July 3-5 2006	H. Chiriac, C. Tyren, A. Loiso, and N. Lupu <i>INCDFT-IFT Iași</i>
24.	GMI-based magnetic microwires array for biomolecules detection	6th European Conference on Magnetic Sensors and Actuators, Bilbao, Spain, July 3-5 2006	H. Chiriac, D. D. Herea, and S. Corodeanu <i>INCDFT-IFT Iași</i>
25.	Hydrogen sorption kinetics in nanocrystalline MgH <sub>2</sub> powders with additions	8th International Conference on Nanostructured Materials, NANO-2006, Bangalore, India, August 20-25, 2006	N. Lupu, G. Fragneto, G. Vaughan, A. Kvik, A.R. Yavari <i>INCDFT-IFT Iași</i> <i>Tokyo Institute of Technology, Japan</i> <i>INCDFT-IFT Iași</i> <i>Karolinska Institutet, Sweden</i> <i>Institut Laue Langevin, France</i> <i>LTPCM, CNRS, Grenoble, France</i>
26.	Synthesis and characterisation of aspirin- Hydrotalcite like anionic clays bionanocomposites	8th International Conference on Nanostructured Materials, NANO-2006, Bangalore, India, August 20-25, 2006	G. Carja, N. Lupu, Y. Kameshima, K. Okada, H. Chiriac <i>INCDFT-IFT Iași</i> <i>Tokyo Institute of Technology, Japan</i>
27.	On the Hall effect in low magnetostrictive Co <sub>68.25</sub> Fe <sub>4.5</sub> Si <sub>12.25</sub> B <sub>15</sub> amorphous ribbons	7 <sup>th</sup> International Balkan Workshop on Applied Physics Constanta, Romania, July 5 <sup>th</sup> – 7 <sup>th</sup> , 2006	M. Lozovan, H. Chiriac, M. Neagu <i>INCDFT-IFT Iași</i> <i>Univ. Al.I.Cuza, Iasi</i>
28.	Structure and magnetic properties of some Cr-substituted manganites	7 <sup>th</sup> International Balkan Workshop on Applied Physics Constanta, Romania, July 5 <sup>th</sup> – 7 <sup>th</sup> , 2006	M.-L. Craus, M. Lozovan, N. Cornei, C. Mita <i>INCDFT-IFT Iași</i> <i>Al I Cuza Univ, Fac Chem, Iasi, Romania</i>
29.	The guidance of magnetic colloids in simulated tissues for targeted drug delivery	7 <sup>th</sup> International Balkan Workshop on Applied Physics Constanta, Romania, July 5 <sup>th</sup> – 7 <sup>th</sup> , 2006	O. Rotariu, L. E. Udrea, N. J. C. Strachan, V. Badescu <i>INCDFT-IFT Iași</i> <i>University Aberdeen, UK</i>
30.	Microscopic observation of ferrofluid droplet formation from a cylindrical channels membrane	7 <sup>th</sup> International Balkan Workshop on Applied Physics Constanta, Romania, July 5 <sup>th</sup> – 7 <sup>th</sup> , 2006	V. Badescu, R. Badescu <i>INCDFT-IFT Iași</i>
31.	High magnetostrictive doped cobalt ferrite	Joint International Conference: "Materials for electrical	O. Caltun, H. Chiriac, N. Lupu, I.



		engineering" Bucharest, Romania, June 15 <sup>th</sup> – 16 <sup>th</sup> , 2006	Dumitru, B. Parvatheeswara Rao <i>INCDFT-IFT Iași Andhra University, Waltair, Visakhapatnam, India</i>
32.	Synthesis and magnetic properties of Fe-Ni and Cu-Ni composite coatings	Joint International Conference: "Materials for electrical engineering" Bucharest, Romania, June 15 <sup>th</sup> – 16 <sup>th</sup> , 2006	H. Chiriac, A. E. Moga, V. A. Constantin <i>INCDFT-IFT Iași</i>
33.	The additions effect on the microstructure and magnetic properties of [NdFeB/M] <sub>x</sub> n thin fil	Joint International Conference: "Materials for electrical engineering" Bucharest, Romania, June 15 <sup>th</sup> – 16 <sup>th</sup> , 2006	H. Chiriac, M. Grigoras, M. Urse <i>INCDFT-IFT Iași</i>
34.	Experimental and micromagnetic FORC analysis for new NdFeB-based bulk "exchange spring" -type permanent magnets	Joint International Conference: "Materials for electrical engineering" Bucharest, Romania, June 15 <sup>th</sup> – 16 <sup>th</sup> , 2006	H. Chiriac, N. Lupu, L. Stoleriu, P. Postolache, A. Stancu <i>INCDFT-IFT Iași Univ. Al.I. Cuza, Iași</i>
35.	Bulk shaped and composite Fe-(Ga,Al) magnetostrictive materials	Joint International Conference: "Materials for electrical engineering" Bucharest, Romania, June 15 <sup>th</sup> – 16 <sup>th</sup> , 2006	N. Lupu, H. Chiriac <i>INCDFT-IFT Iași</i>
36.	Preparation and magnetic properties of electroplated Fe and Cu composite coatings with embedded Ni nanoparticles	4 <sup>th</sup> International Workshop on Electrodeposited Nanostructures, March 16-18, 2006, Dresden, Germany	H. Chiriac, A. E. Moga, A. V. Constantin, F. T. Todosi <i>INCDFT-IFT Iași</i>
37.	Preparation and magnetic properties of electroplated Fe and Cu composite coatings with embedded Ni nanoparticles	III Joint European Magnetic Symposia, San Sebastian, Spain, 26-30 June 2006	H. Chiriac, A. E. Moga, V. A. Constantin <i>INCDFT-IFT Iași</i>
38.	Preparation and magnetic properties of Fe and Ni based nanoparticles and nanowires	International Semiconductor Conference (CAS 2006), Sinaia, Romania. 27-29 September, 2006	H. Chiriac, A. E. Moga, C. Gherasim <i>INCDFT-IFT Iași</i>
39.	On the preparation and on the magnetic properties of Co and Ni nanowires arrays	Romanian Conference on Advanced Materials- Fifth International Edition: ROCAM 2006, Bucharest-Magurele, Romania, September 11-14 <sup>th</sup> , 2006	H. Chiriac, A. E. Moga, M. Gaburici, C. Gherasim <i>INCDFT-IFT Iași</i>
40.	On the preparation and on the magnetic properties of nanowires arrays	Romanian Conference on Advanced Materials- Fifth International Edition: ROCAM 2006, Bucharest-Magurele, Romania, September 11-14 <sup>th</sup> , 2006	H. Chiriac, A. E. Moga, C. Gherasim <i>INCDFT-IFT Iași</i>
41.	Humidity-sensitive electrical resistivity of MgFe <sub>2</sub> O <sub>4</sub> and Mg <sub>0.9</sub> Sn <sub>0.1</sub> Fe <sub>2</sub> O <sub>4</sub> porous ceramics	7th International Balkan Workshop on Applied Physics, Constanta, Romania, July 5-7, 2006	Nicolae Rezlescu and Corneliu Doroftei <i>INCDFT-IFT Iași</i>
42.	Spinel ferrites under the influence of PbO	7th International Balkan Workshop on Applied Physics, Constanta,	Liliana Sachelarie, Elena Rezlescu and

	addition	Romania, July 5-7, 2006	Corneliu Doroftei <i>INCDFT-IFT Iași</i>
43.	Fine-grained gadolinium doped strontium hexaferrite	7th International Balkan Workshop on Applied Physics, Constanta, Romania, July 5-7, 2006	Corneliu Doroftei and Nicolae Rezlescu <i>INCDFT-IFT Iași</i>
44.	The effect of rare earth ions on the physical properties of a MgCuZn ferrite	6 <sup>th</sup> International Conference on f-elements, Wrocław, Poland, September 4-9, 2006	E.Rezlescu , L.Sachelarie and N.Rezlescu <i>INCDFT-IFT Iași</i>
45.	The influence oh heat-treatment on microstructure and magnetic properties of rare-earth substituted SrFe <sub>12</sub> O <sub>19</sub>	6 <sup>th</sup> International Conference on f-elements, Wrocław, Poland, September 4-9, 2006	N.Rezlescu, C.Doroftei, E.Rezlescu and P.D.Popa <i>INCDFT-IFT Iași</i>
46.	Preparation and magnetic properties of ferromagnetic perovskite La-Pb-Mn-O at room temperature	Workshop on Fundamental and Applied Research in Physics (FARPHYS 2006), Universitatea "Al. I. Cuza" Iași, 28 octombrie 2006	C. Doroftei, E. Rezlescu, N. Rezlescu and P.D. Popa <i>INCDFT-IFT Iași</i>
47.	Gas sensing of doped and nedoped ZnO thin films prepared by vacuum thermal evaporation technique	Workshop on Fundamental and Applied Research in Physics (FARPHYS 2006), Universitatea "Al. I. Cuza" Iași, 28 octombrie 2006	N. Iftimie, F. Iacomi and N. Rezlescu <i>INCDFT-IFT Iași Univ. Al.I. Cuza, Iasi</i>
48.	Colloidal magnetic particles for targeted drug delivery – physical characterization and magnetically maneuverability.	NANOMAT 2006-International workshop on nanostructured materials, June 21-23, 2006, Antalya, Turkey, 2006.	Laura Elena Udrea, Vasile Badescu, Norval J. C. Strachan, Ovidiu Rotariu <i>INCDFT-IFT Iași University of Aberdeen, UK</i>
49.	Comparative Microstructural Analysis of Water Based Ferrofluids	NANOMAT 2006-International workshop on nanostructured materials, June 21-23, 2006, Antalya, Turkey, 2006.	Mihaela Racuciu, Dorina Creangă, Nicolae Suliteanu, Vasile Bădescu <i>Universitatea "L. Blaga" Sibiu Universitatea "Al. I. Cuza" Iași INCDFT-IFT Iași</i>
50.	Nanoparticules magnétiques support pour la livraison dirigée des médicaments - caractérisation physique et manipulation en champs magnétique	COFrRoCA 2006: Quatrième Colloque Franco-Roumain de Chimie Appliquée, 28 June – 2 July, Clermont-Ferrand, France, 2006.	Laura Elena Udrea, Ovidiu Rotariu, Marcel Ionel Popa <i>INCDFT-IFT Iași Universitatea Tehnică "Gh. Asachi" Iasi</i>
51.	The Deposition of Magnetic Colloids in Capillary Tubes – An Experimental Study	7 <sup>th</sup> Int. Conf Scientific and Clinical Applications of Magnetic Carriers, May 17 <sup>th</sup> -20 <sup>th</sup> , 2006, Krems, Austria, 2006.	Laura Elena Udrea, Norval J. C. Strachan, Ovidiu Rotariu <i>INCDFT-IFT Iași University of Aberdeen, UK</i>
52.	Microstructural	7 <sup>th</sup> Int. Conf Scientific and Clinical	Gabriel Matei,

	investigation on oil based ferrofluids using AFM and TEM	Applications of Magnetic Carriers, May 17 <sup>th</sup> -20 <sup>th</sup> , 2006, Krems, Austria.	Cristian Parghie, Neculai Apetroaie, Dorina Creanga, Nicolae Sulitanu, Vasile Bădescu <i>Universitatea "Al. I. Cuza" Iași INCDFT-IFT Iași</i>
53.	Microstructural investigation of some biocompatible ferrofluids	III JOINT EUROPEAN MAGNETIC SYMPOSIA, San Sebastian, Spain, 26-30 June, 2006.	M.Răcuci, D.E.Creangă, V.Bădescu, N. Sulitanu <i>Universitatea "L. Blaga" Sibiu Universitatea "Al. I. Cuza" Iași INCDFT-IFT Iași</i>
54.	MICROSCOPIC OBSERVATION OF FERROFLUID DROPLET FORMATION FROM A CYLINDRICAL CHANNELS MEMBRANE	7 <sup>th</sup> International Balkan WORKSHOP on Applied Physics, Jul. 5-7, Constanța, 2006.	Vasile BĂDESCU and Rodica BĂDESCU <i>INCDFT-IFT Iași Universitatea Tehnică "Gh. Asachi" Iasi</i>
55.	THE STUDY OF THE MAGNETO-BIREFRINGENCE RELAXATION FOR A AQUEOUS FERROFLUID ON THE POLYVINYLIC ALCOHOL BASE	7 <sup>th</sup> International Balkan WORKSHOP on Applied Physics, Jul. 5-7, Constanța, 2006.	Gabriela APREOTESEI , Rodica BĂDESCU, Laura Elena UDREA and Ovidiu ROTARIU <i>Universitatea Tehnică "Gh. Asachi" Iasi INCDFT-IFT Iași</i>
56.	THE GUIDANCE OF MAGNETIC COLLOIDS IN SIMULATED TISSUES FOR TARGETED DRUG DELIVERY	7 <sup>th</sup> International Balkan WORKSHOP on Applied Physics, Jul. 5-7, Constanța, 2006.	Ovidiu ROTARIU, Laura Elena UDREA , Norval J. C. STRACHAN and Vasile BĂDESCU <i>INCDFT-IFT Iași University of Aberdeen, UK</i>
57.	Water based ferrofluids for biomedical applications – physical characterization	Int. Conference on Biomaterials & Medical Devices, BIOMMEDD'2006, November, 9-11 <sup>th</sup> , 2006, Iasi, Romania.	G. Apreotesei, L.E. Udrea, O. Rotariu, R. Badescu <i>Universitatea Tehnică "Gh. Asachi" Iasi INCDFT-IFT Iași</i>
58.	Structural and magnetic properties of some Cr substituted manganites	7th International Balkan Workshop On Applied Physics July 5-7th, 2006, Constanta, Romania	Mihail-Liviu Craus, Mihai Lozovan, Nicoleta Cornei Carmen Mita <i>INCDFT-IFT Iași Univ. Al. I Cuza Iasi</i>
59.	On the Hall effect in low magnetostrictive $\text{Co}_{68.25}\text{Fe}_{4.5}\text{Si}_{12.25}\text{B}_{15}$	7th International Balkan Workshop On Applied Physics July 5-7th, 2006, Constanta, Romania	Mihai Lozovan Horia Chiriac Maria Neagu

	Amorphous ribbons		<i>INCDFT-IFT Iași Univ. Al. I Cuza Iași</i>
60.	A new IT strategy ANN based for special nanomagnetic materials design and characterisation	7th International Balkan Workshop On Applied Physics July 5-7th, 2006, Constanta, Romania	S. Mohorianu M. Lozovan <i>INCDFT-IFT Iași</i>
61.	Structural and magnetic properties of some Cr substituted manganites	7th International Balkan Workshop On Applied Physics July 5-7th, 2006, Constanta, Romania	Mihail-Liviu Craus, Mihai Lozovan, Nicoleta Cornei Carmen Mita <i>INCDFT-IFT Iași Univ. Al. I Cuza Iași</i>
62.	A new IT strategy ANN based for special nanomagnetic materials design and characterisation	7th International Balkan Workshop On Applied Physics July 5-7th, 2006, Constanta, Romania	S. Mohorianu M. Lozovan <i>INCDFT-IFT Iași</i>
63.	Application of 2D nonuniform fast Fourier transforms technique to analysis of shielded microstrip circuits	Scientific Computing in Electrical Engineering, SCEE 2006, Sinaia – Romania	Raimond Grimberg, Adriana Savin, Sorin Leitoiu, <i>INCDFT-IFT Iași</i>
64.	Scattering matrix analysis of cascaded periodic surfaces	Scientific Computing in Electrical Engineering, SCEE 2006, Sinaia – Romania	Adriana Savin, Raimond Grimberg, Rozina Steigmann, <i>INCDFT-IFT Iași</i>
65.	Utilization of Rotating Magnetic Field as Power Tool in Electromagnetic Nondestructive Evaluation	XVII International Conference on Electrical Machines (ICEM 2006), Chania Greece,	Raimond Grimberg, Lalita Udpa, Adriana Savin, Rozina Steigmann, Alina Bruma, Satish S.Udpa <i>INCDFT-IFT Iași Michigan State University, USA</i>
66.	Nondestructive Evaluation of Electrical Machines using Superconductor Windings	XVII International Conference on Electrical Machines (ICEM 2006), Chania Greece,	Raimond Grimberg, Adriana Savin, Rozina Steigmann, Sorin Leitoiu, Alina Bruma <i>INCDFT-IFT Iași</i>
<b>Anul 2007</b>			
1.	The Co content and stratification effect on the magnetic properties, microstructure and phase evolution of [NdFeBNbCu/Co] <sub>xn</sub> thin films	10 <sup>th</sup> Joint MMM/INTERMAG CONFERENCE, Baltimore, Maryland, USA, 7 – 11 ianuarie, 2007	H. Chiriac, M. Grigoras, M. Urse <i>INCDFT-IFT Iași</i>
2.	New 3-D shaped polycrystalline and composite – containing active magnetostrictive	10 <sup>th</sup> Joint MMM/INTERMAG CONFERENCE, Baltimore, Maryland, USA, 7 – 11 ianuarie, 2007	H. Chiriac, N. Lupu <i>INCDFT-IFT Iași</i>

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3.	Optimized GMI response of Co-based amorphous glass – coated microwires by direct control over the surface	10 <sup>th</sup> Joint MMM/INTERMAG CONFERENCE, Baltimore, Maryland, USA, 7 – 11 ianuarie, 2007	H. Chiriac, S. Corodeanu, M. Tibu, T. A. Ovari <i>INCDFT-IFT Iași</i>
4.	Size triggered change in the magnetization mechanism of nearly zero magnetostrictive amorphous glass – coated microwires	10 <sup>th</sup> Joint MMM/INTERMAG CONFERENCE, Baltimore, Maryland, USA, 7 – 11 ianuarie, 2007	H. Chiriac, S. Corodeanu, M. Tibu, T. A. Ovari <i>INCDFT-IFT Iași</i>
5.	Effects of M Additions on the Hard Magnetic Properties and Thermal Stability of Nanocrystalline [Nd-Fe-B/M] <sub>xn</sub> Films	International Conference on Nano Sciences and Technology (ICN+T 2007), Stockholm, Sweden, July 2-6, 2007	H. Chiriac, M. Grigoras, M. Urse, C. Zet <i>INCDFT-IFT Iași Univ. Techn. Gh. Asachi, Iași</i>
6.	The thermal stresses induced in a Co nanowire from alumina membrane during the cooling process	Soft Magnetic Materials Conference (SMM 18), Cardiff, U.K. , 2-5 Septembrie 2007	I. Astefanoaei, H. Chiriac, A. Stancu <i>INCDFT-IFT Iași Univ. Al.I. Cuza, Iași</i>
7.	Magnetic properties and power losses in Fe-Co-based bulk metallic glasses	Soft Magnetic Materials Conference (SMM 18), Cardiff, U.K. , 2-5 Septembrie 2007	R. Piccin, P. Tiberto, H. Chiriac, M. Baricco <i>INCDFT-IFT Iași IEN Galileo Ferraris, Torino, Italy</i>
8.	Domain wall thickness in glass-coated amorphous microwires	Soft Magnetic Materials Conference (SMM 18), Cardiff, U.K. , 2-5 Septembrie 2007	Tibor – Adrian Ovari, H. Chiriac <i>INCDFT-IFT Iași</i>
9.	Mobility of 180° walls in positive and nearly zero magnetostrictive amorphous microwires	Soft Magnetic Materials Conference (SMM 18), Cardiff, U.K. , 2-5 Septembrie 2007	H. Chiriac, M. Tibu, T-A. Ovari <i>INCDFT-IFT Iași</i>
10.	Magnetoimpedance effect and high magnetic moment of Fe-(Au,Cu)-B soft magnetic glassy alloy	Soft Magnetic Materials Conference (SMM 18), Cardiff, U.K. , 2-5 Septembrie 2007	N. Lupu, J-Marc Greneche, H. Chiriac <i>INCDFT-IFT Iași Université du Maine, France</i>
11.	Magnetization And Magnetotransport Processes In Soft Magnetic NiFe/Cu Multilayered Films And Nanowires	Soft Magnetic Materials Conference (SMM 18), Cardiff, U.K. , 2-5 Septembrie 2007	H Chiriac, P Pascariu, G Ababei, S Corodeanu, M Grigoras, N Lupu <i>INCDFT-IFT Iași</i>
12.	Amorphous wires based magneto-inductive sensor for nondestructive control	Soft Magnetic Materials Conference (SMM 18), Cardiff, U.K. , 2-5 Septembrie 2007	M. Tibu , , H. Chiriac <i>INCDFT-IFT Iași</i>
13.	Substituted cobalt ferrites for sensors applications	Soft Magnetic Materials Conference (SMM 18), Cardiff, U.K. , 2-5 Septembrie 2007	Ovidiu F. Caltun, Ioan Dumitru, Marcel Feder, Nicoleta Lupu,

			Horia Chiriac <i>INCDFT-IFT Iași</i> <i>Univ. Al.I.Cuza,</i> <i>Iasi</i>
14.	Symmetric magnetic tunnel junctions with amorphous soft magnetic materials as electrodes	Soft Magnetic Materials Conference (SMM 18), Cardiff, U.K. , 2-5 Septembrie 2007	H Chiriac, M Urse, M Grigoras <i>INCDFT-IFT Iași</i>
15.	Preparation, characterization and applications of electroplated composite coatings	5 <sup>th</sup> ISOPE HPM Symposium: Nanomaterials for Structural Application, Lisabona, Portugalia, July 1-6, 2007	N Lupu <i>INCDFT-IFT Iași</i>
16.	New 3-D bulk shaped and nanocomposites magnetostrictive materials	European School on Magnetism „ New Magnetic Materials and Their Functions” and Workshop on advanced materials, Cluj-Napoca, Romania, 9-18 septembrie, 2007	N. Lupu, H.Chiriac, M.Valeanu, T. Buruiana, V. Harabagiu, I.Mihalca <i>INCDFT-IFT Iași</i> <i>IFTM Bucuresti</i> <i>ICM Petru Poni,</i> <i>Iasi</i>
17.	Magnetic domains structure of DC joule – heated amorphous glass – magnetic microwires	8 <sup>th</sup> INTERNATIONAL BALKAN WORKSHOP on APPLIED PHYSICS, Constanta, Romania 5 – 7 iulie, 2007	I. Astefanoaei, H. Chiriac, A. Stancu <i>INCDFT-IFT Iași</i> <i>Univ. Al.I.Cuza,</i> <i>Iasi</i>
18.	The influence of the microstructure on magnetostrictive coefficient of Mn and Si doped cobalt ferrite	8 <sup>th</sup> INTERNATIONAL BALKAN WORKSHOP on APPLIED PHYSICS, Constanta, Romania 5 – 7 iulie, 2007	O. Caltun, I. Dumitru, M. Feder, V. Vilceanu, H. Chiriac, N. Lupu <i>INCDFT-IFT Iași</i> <i>Univ. Al.I.Cuza,</i> <i>Iasi</i> <i>IFTM Bucuresti</i>
19.	Silane covered magnetite particles. Preparation and characterisation	8 <sup>th</sup> INTERNATIONAL BALKAN WORKSHOP on APPLIED PHYSICS, Constanta, Romania 5 – 7 iulie, 2007	A. Durdureanu – Angheluta, R. Ardeleanu, Maria Pinteala, V Harabagiu, H. Chiriac, B. C. Simionescu <i>INCDFT-IFT Iași</i> <i>ICM Petru Poni,</i> <i>Iasi</i>
20.	Magnetic nanomaterials: preparation, characterization and application	8 <sup>th</sup> INTERNATIONAL BALKAN WORKSHOP on APPLIED PHYSICS, Constanta, Romania 5 – 7 iulie, 2007	H. Chiriac <i>INCDFT-IFT Iași</i>
21.	Interfacial phase composition and spin configuration in various exchange bias and spin valve layered systems	8 <sup>th</sup> INTERNATIONAL BALKAN WORKSHOP on APPLIED PHYSICS, Constanta, Romania 5 – 7 iulie, 2007	V. Kuncser, G. Schinteie, I. Mustata, C. Lungu, A. Anghel, H. Chirac, R. Vladioiu, G. Filoti <i>INCDFT-IFT Iași</i> <i>ICSI Rm. Valcea</i>

			<i>ICM Petru Poni, Iasi</i>
22.	Influence of NdFeB layer thickness and composition on the magnetic properties of [NdFeBM/N] <sub>xn</sub> films	8 <sup>th</sup> INTERNATIONAL BALKAN WORKSHOP on APPLIED PHYSICS, Constanta, Romania 5 - 7 iulie, 2007	H. Chiriac, M. Grigoras, M. Urse <i>INCDFT-IFT Iasi</i>
23.	Synthesis and characterization of Co and Ni magnetic nanoparticles	8 <sup>th</sup> INTERNATIONAL BALKAN WORKSHOP on APPLIED PHYSICS, Constanta, Romania 5 - 7 iulie, 2007	H. Chiriac, A - E. Moga, C. Gherasim <i>INCDFT-IFT Iasi</i>
24.	Permalloy thin films obtained by pulsed laser deposition: magnetic and galvanomagnetic behaviour	8 <sup>th</sup> INTERNATIONAL BALKAN WORKSHOP on APPLIED PHYSICS, Constanta, Romania 5 - 7 iulie, 2007	M. Neagu, M. Lozovan, M. Dobromir, L. Velicu, C. Hison <i>INCDFT-IFT Iasi Univ. Al.I.Cuza, Iasi</i>
25.	A database for nanomagnetic materials - is it really a necessity	8 <sup>th</sup> INTERNATIONAL BALKAN WORKSHOP on APPLIED PHYSICS, Constanta, Romania 5 - 7 iulie, 2007	S. Mohorianu, F - V. Rusu, M. Lozovan <i>INCDFT-IFT Iasi</i>
26.	The energy states of cylindrical dots system embedded into a semiconductor matrix	8 <sup>th</sup> INTERNATIONAL BALKAN WORKSHOP on APPLIED PHYSICS, Constanta, Romania 5 - 7 iulie, 2007	I. Dumitru, I. Astefanoaei, R. Grimberg, A. Stancu <i>INCDFT-IFT Iasi Univ. Al.I.Cuza, Iasi</i>
27.	Magnetoresistance effect in La-Pb-Mg-Mn-O Manganites	8 <sup>th</sup> INTERNATIONAL BALKAN WORKSHOP on APPLIED PHYSICS, Constanta, Romania 5 - 7 iulie, 2007	C. Doroftei, E. Rezlescu, P. D. Popa, N. Rezlescu <i>INCDFT-IFT Iasi</i>
28.	Microstructure characteristics of some polycrystalline oxide compounds prepared by sol - gel - selfcombustions way for gas sensor applications	8 <sup>th</sup> INTERNATIONAL BALKAN WORKSHOP on APPLIED PHYSICS, Constanta, Romania 5 - 7 iulie, 2007	N. Rezlescu, P. D. Popa, E. Rezlescu, C. Doroftei <i>INCDFT-IFT Iasi</i>
29.	Beneficial effect of small MgO content on some physical properties of a CuZn ferrite	8 <sup>th</sup> INTERNATIONAL BALKAN WORKSHOP on APPLIED PHYSICS, Constanta, Romania 5 - 7 iulie, 2007	L. Sachelarie, E. Rezlescu, C. Doroftei, N. Rezlescu <i>INCDFT-IFT Iasi</i>
30.	Ni <sub>80</sub> Fe <sub>20</sub> /SiO <sub>2</sub> /Cu/SiC <sub>2</sub> /Ni <sub>80</sub> Fe <sub>20</sub> composite wire made by electrodeposition on Ni <sub>80</sub> Fe <sub>20</sub> seed layered glass coated copper wire and its characteristics	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iasi, România, 29-31 August 2007	X.P. Li <sup>1</sup> , H.L. Seet <sup>1</sup> , J.B. Yi <sup>1</sup> , H. Chiriac <sup>2</sup> <i>INCDFT-IFT Iasi Beijing University of Posts and Telecommunications Beijing, China</i>
31.	Stratification Effect Of Nd-Fe-B Single Layer On Magnetic And Structural Properties Of Multilayer [Ndfeb/A].N	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iasi, România, 29-31 August 2007	H. Chiriac, M. Grigoras, N. Lupu, M. Urse <i>INCDFT-IFT Iasi</i>

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32.	The Influence Of The Layers Thickness And Annealing Conditions On The Magnetic Properties Of The Multilayer [Ndfebnbcu/Febsi] X N System	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	H. Chiriac, M. Grigoras, N. Lupu, M. Urse, V. Buta <i>INCDFT-IFT Iași</i>
33.	Structure And Magnetic Properties Of Pr(Fe,Co,Ti,Cu,Zr) <sub>9.66</sub> Melt-Spun Nanostructured Alloys	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	M. Gjoka <sup>1</sup> , D. Niarchos <sup>1</sup> , C. Sarafidis <sup>2</sup> , O. Kalogirou <sup>2</sup> , M. Grigoras <sup>3</sup> , N. Lupu <sup>3</sup> , H. Chiriac <sup>3</sup> <i>INCDFT-IFT Iași Inst. Demokritos, Athens, Greece</i>
34.	Structure And Magnetic Properties Of The Sm(Co <sub>0.74</sub> Fe <sub>0.1</sub> Cu <sub>0.12</sub> Zr <sub>0.04</sub> ) <sub>Y</sub> Melt-Spun Nanostructured Ribbons	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	M. Gjoka <sup>1</sup> , D. Niarchos <sup>1</sup> , C. Sarafidis <sup>2</sup> , O. Kalogirou <sup>2</sup> , M. Grigoras <sup>3</sup> , N. Lupu <sup>3</sup> , H. Chiriac <sup>3</sup> <i>INCDFT-IFT Iași Inst. Demokritos, Athens, Greece</i>
35.	Magnetostrictive Behaviour In Co <sub>72.5-x</sub> Fe <sub>x</sub> Si <sub>12.5</sub> B <sub>15</sub> (X=1 - 3) Glass Covered Amorphous Wires	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	M. Neagu <sup>1</sup> , C.H. Chiriac <sup>1,2</sup> , H. Chiriac <sup>3</sup> <i>INCDFT-IFT Iași Univ. A. I. Cuza Iasi</i>
36.	The Thermal Treatments Effect On The Fmr Response Of Co-Based Microwires	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	G. Ababei <sup>1,2</sup> , H. Chiriac <sup>1</sup> <i>INCDFT-IFT Iași</i>
37.	Effect Of Microwire Ends On The Magnetostatic Interaction Between Amorphous Microwires	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	H. Chiriac, S. Corodeanu, T.-A. Óvári <i>INCDFT-IFT Iași</i>
38.	Investigation Of The Interdomain Walls In Nearly Zero Magnetostrictive Amorphous Microwires	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	H. Chiriac, T.-A. Óvári, S. Corodeanu, G. Ababei <i>INCDFT-IFT Iași</i>
39.	Models For Interacting Systems Of Magnetostrictive Single-Domain Particles	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	P. Postolache <sup>1</sup> , N. Lupu <sup>2</sup> , H. Chiriac <sup>2</sup> , A. Stancu <sup>1</sup> <i>INCDFT-IFT Iași Univ. A. I. Cuza Iasi</i>
40.	Dendritic Morphogenesis Process Through The Fractal Space-Time Theory	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	S. Mohorianu <sup>1</sup> , M. Agop <sup>2</sup> , P. Vizureanu <sup>2</sup> <i>INCDFT-IFT Iași Univ. Tec. Gh. Asachi, Iasi</i>



41.	A New Technique To Study The Magnetic Nanomaterials – The Virtual Experiment	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	S. Mohorianu <sup>1</sup> , F.-V. Rusu <sup>1</sup> , M. Lozovan <sup>1</sup> <i>INCDFT-IFT Iași</i>
42.	The Thermal Stresses Induced In A Co Nanowire From Alumina Membrane During The Cooling Process	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	I. Astefanoaei, H. Chiriac, A. Stancu <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iasi</i>
43.	High Frequency Magnetoimpedance Effect In Nife/Cu Multilayered Nanowires	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	H. Chiriac, P. Pascariu, S. Corodeanu, G. Ababei, N. Lupu <i>INCDFT-IFT Iași</i>
44.	Magnetization And Magnetotransport Processes In Cofenib And Conip Amorphous Electrodeposited Thin Films And Nanowires	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	H. Chiriac, P. Pascariu, G. Ababei, M. Grigoras, N. Lupu <i>INCDFT-IFT Iași</i>
45.	In Vitro Experimental Model For Simulating Magnetic Embolization As Possible Cancer Therapy	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	L.I. Buruiana, D.D. Herea, H. Chiriac <i>INCDFT-IFT Iași</i>
46.	Some Experimental Results On Encapsulation Of Phenols In Superparamagnetic Polymer Nanospheres	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	V. Bădescu <sup>1</sup> , L.E. Udrea <sup>1</sup> , O. Rotariu <sup>1</sup> , R. Bădescu <sup>2</sup> , G. Apreotesei <sup>2</sup> <i>INCDFT-IFT Iași</i>
47.	Preparation And Magnetic Properties Of Magnetite-Coated Pva Nanoparticles For Biomedical Applications	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	L.I. Buruiana <sup>1</sup> , D.D. Herea <sup>1,2</sup> , H. Chiriac <sup>1</sup> <i>INCDFT-IFT Iași</i>
48.	Preparation And Characterization Of Uniform Calcium Alginate Magnetic Beads By Microfluidic Techniques	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	V. Bădescu <sup>1</sup> , L.E. Udrea <sup>1</sup> , O. Rotariu <sup>1</sup> , R. Bădescu <sup>2</sup> , G. Apreotesei <sup>2</sup> <i>INCDFT-IFT Iași</i>
49.	Preparation And Characterization Of Co And Ni Magnetic Nanoparticles	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	A.E. Moga <sup>1</sup> , C. Gherasim <sup>1,2</sup> , H.Chiriac <sup>1</sup> <i>INCDFT-IFT Iași</i>
50.	Synthesis And Magnetic Properties Of Co-B, Ni-B And Co-Ni-B Amorphous Nanoparticles	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	A.E. Moga <sup>1</sup> , N. Lupu <sup>1</sup> , C. Gherasim <sup>1,2</sup> , H. Chiriac <sup>1</sup> <i>INCDFT-IFT Iași</i>
51.	MAGNETORHEOLOGICAL FLUIDS BASED ON AMORPHOUS Cofesib AND Fesib PARTICLES	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	G. Stoian <sup>1,2</sup> , M. Lostun <sup>1</sup> , H. Chiriac <sup>1</sup> <i>INCDFT-IFT Iași</i>
52.	Extrinsic/Intrinsic	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP	C. Mita <sup>1</sup> , M.-L.

	Magnetoresistance In $\text{La}_{0.54}\text{Ho}_{0.11}\text{Sr}_{0.35}\text{Co}_x\text{Mn}_{1-x}$	on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	Craus <sup>2,3</sup> , N. Cornei <sup>1</sup> , M. Lozovan <sup>2</sup> <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iasi</i>
53.	Copper Influence On Magnetic/Crystalline Structure And Transport Properties Of $\text{La}_{0.54}\text{Ho}_{0.11}\text{Sr}_{0.35}\text{Mn}_{1-x}\text{Cu}_x\text{O}_3$	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	M.-L. Craus <sup>1,2</sup> , N. Cornei <sup>3</sup> , M. Lozovan <sup>1</sup> <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iasi</i>
54.	Correlation Between Physical Properties And Nature Of T Cation Substitution In $\text{La}_{0.54}\text{Ho}_{0.11}\text{Sr}_{0.35}\text{Mn}_{1-x}\text{T}_x\text{O}_3$	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	N. Cornei <sup>1</sup> , M.-L. Craus <sup>2,3</sup> , M. Lozovan <sup>2</sup> <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iasi</i>
55.	Clays As Ensembles Of Nanoparticles With Designed Magnetic Properties: The Case Of The Supported Ldhs	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	G. Carja <sup>1</sup> , D. Mantu <sup>2</sup> , N. Lupu <sup>2</sup> , H. Chiriac <sup>2</sup> <i>INCDFT-IFT Iași Univ. Tec. Gh. Asachi, Iasi</i>
56.	High Sensitive Gmi Biosensor Based On Glass-Coated Microwires Array For Biomedical Assays	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	D.D. Herea <sup>1,2</sup> , H. Chiriac <sup>1</sup> <i>INCDFT-IFT Iași</i>
57.	The Influence Of The Amorphous Core Characteristics On The Response Of Residence Times Difference Fluxgate Magnetometer	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	M. Tibu <sup>1</sup> , H. Chiriac <sup>1</sup> , V. In <sup>2</sup> <i>INCDFT-IFT Iași</i>
58.	Characterization Of Amorphous Magnetic Materials By Using Analog And Digital Integration Technique	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	M. Tibu <sup>1,2</sup> , S. Corodeanu <sup>1,2</sup> , H. Chiriac <sup>1</sup> <i>INCDFT-IFT Iași</i>
59.	Nanostructured soft ferrites sensitive to water vapor	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	E. Rezlescu, F. Tudorache, N. Rezlescu, C. Doroftei <i>INCDFT-IFT Iași</i>
60.	Some nanostructured ferrimagnetic compounds as reducing gas sensing material	The 4 <sup>th</sup> INTERNATIONAL WORKSHOP on AMORPHOUS and NANOSTRUCTURED MAGNETIC MATERIALS - ANMM 2007, Iași, România, 29-31 August 2007	N. Rezlescu, C. Doroftei, E. Rezlescu, F. Tudorache <i>INCDFT-IFT Iași</i>
61.	Preparation and magnetic properties of Fe-W and Ni-W composite coatings	2007 International Semiconductor Conference (CAS 2007), Sinaia, Romania, October 15-17, 2007	H. Chiriac <sup>1</sup> , A. E. Moga <sup>1</sup> , C. Gherasim <sup>1,2</sup> , N. Lupu <sup>1</sup> <i>INCDFT-IFT Iași</i>
62.	Electrodeposition of Ni, Fe and NiFe alloys into anodized aluminium	5 <sup>th</sup> INTERNATIONAL WORKSHOP ON ELECTRODEPOSITED NANOSTRUCTURES" EDNANO 5 - 2007, Iași, România, , 7 - 9 iunie	M. Gaburici, C. Gherasim, M. Grigoras, H. Chiriac

		2007	<i>INCDFT-IFT Iași</i>
63.	Magnetic and magnetotransport properties of CoCu nanowires	5 <sup>th</sup> INTERNATIONAL WORKSHOP ON ELECTRODEPOSITED NANOSTRUCTURES" EDNANO 5 - 2007, Iași, România, , 7 - 9 iunie 2007	H. Chiriac <sup>(1)</sup> , P. Pascariu <sup>(1)</sup> , I. Bakonyi <sup>(2)</sup> , L. Peter <sup>(2)</sup> , N. Lupu <sup>(1)</sup> <i>INCDFT-IFT Iași Central Research Institute of Physics, Budapest</i>
64.	Magnetic behavior of NiFe/Cu multilayered nanowire arrays	5 <sup>th</sup> INTERNATIONAL WORKSHOP ON ELECTRODEPOSITED NANOSTRUCTURES" EDNANO 5 - 2007, Iași, România, , 7 - 9 iunie 2007	H. Chiriac, P. Pascariu, M. Grigoraș, T.-A. Óvári <i>INCDFT-IFT Iași</i>
65.	Synthesis and magnetic properties of Fe-W and Ni-W composite coatings	5 <sup>th</sup> INTERNATIONAL WORKSHOP ON ELECTRODEPOSITED NANOSTRUCTURES" EDNANO 5 - 2007, Iași, România, , 7 - 9 iunie 2007	A.-E. Moga <sup>(1)</sup> , H. Chiriac <sup>(1)</sup> , C. Gherasim <sup>(1,2)</sup> , N. Lupu <sup>(1)</sup> <i>INCDFT-IFT Iași</i>
66.	3-D Shaped Polycrystalline and Composite-containing Active Magnetostrictive Materials	IEEE ROMSC 2007, Iași, Romania, IEEE Magnetics Society Chapter Romania Section, 26-29 May, 2007	N. Lupu, H. Chiriac, M.Văleanu, I.Mihalca <i>INCDFT-IFT Iași IFTM, Bucuresti, ITIM Timisoara</i>
67.	Magneto-transport effects in multilayered films and nanowires	IEEE ROMSC 2007, Iași, Romania, IEEE Magnetics Society Chapter Romania Section, 26-29 May, 2007	H.Chiriac, P.Pascariu, G. Ababei, S. Corodeanu, M.Grigoraș, N. Lupu <i>INCDFT-IFT Iași</i>
68.	Stoichiometry – magnetic properties and magnetostriction relationship in cobalt ferrites	IEEE ROMSC 2007, Iași, Romania, IEEE Magnetics Society Chapter Romania Section, 26-29 May, 2007	O. Caltun, I.Dumitru, M.Feder, L.Diamandescu, I.Bibicu, F. Vasiliu, H.Chiriac, N.Lupu, L.Boutiuc, V.Valceanu <i>INCDFT-IFT Iași Univ. Al.I.Cuza, Iasi</i>
69.	Study of some simple ferrites as reducing gas sensors	IEEE Magnetics Society Chapter of the Romania Section, Universitatea Iași, May 26-29, 2007	F.Tudorache, E. Rezlescu, P.D. Popa and N. Rezlescu <i>INCDFT-IFT Iași</i>
70.	Magnetic properties at low temperatures of La-Pb-Mg-Mn-O manganites	IEEE Magnetics Society Chapter of the Romania Section, Universitatea Iași, May 26-29, 2007	C. Doroftei, E. Rezlescu, P.D. Popa and N. Rezlescu <i>INCDFT-IFT Iași</i>
71.	High performance gas sensing materials based on nanostructured zinc oxide films	IEEE Magnetics Society Chapter of the Romania Section, Universitatea Iași, May 26-29, 2007	N. Iftimie, F. Iacomi and N. Rezlescu <i>INCDFT-IFT Iași Univ. Al.I.Cuza,</i>

			<i>Iasi</i>
72.	Microstructure characteristics of some polycrystalline oxide compounds prepared by sol-gel-selfcombustion way for gas sensor applications	8 <sup>th</sup> International Balkan Workshop on Applied Physics, Constanta, Romania, July 5-7, 2007	N. Rezlescu, P.D. Popa, E. Rezlescu and C. Doroftei <i>INCDFT-IFT Iasi</i>
73.	Beneficial effect of small MgO content on some physical properties of a CuZn ferrite	8 <sup>th</sup> International Balkan Workshop on Applied Physics, Constanta, Romania, July 5-7, 2007	L. Sachelarie, E. Rezlescu, C. Doroftei and N. Rezlescu <i>INCDFT-IFT Iasi</i>
74.	Magnetoresistance effect in La-Pb-Mg-Mn-O manganites	8 <sup>th</sup> International Balkan Workshop on Applied Physics, Constanta, Romania, July 5-7, 2007	C. Doroftei, E. Rezlescu, P.D. Popa and N. Rezlescu <i>INCDFT-IFT Iasi</i>
75.	Preparation, structure and gas sensing properties of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> and $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> thick films	Third Seeheim Conference on Magnetism, Frankfurt, Germany, August 26-30, 2007	E. Rezlescu, C. Doroftei, P. D. Popa, and N. Rezlescu <i>INCDFT-IFT Iasi</i>
76.	The compressed ferrite nanopowder for gas sensors	Third Seeheim Conference on Magnetism, Frankfurt, Germany, August 26-30, 2007	N. Rezlescu, E. Rezlescu, F. Tudorache and P. D. Popa <i>INCDFT-IFT Iasi</i>
77.	Transport properties and magnetoresistance effect in La-Pb-Mg-Mn-O manganites	Third Seeheim Conference on Magnetism, Frankfurt, Germany, August 26-30, 2007	N. Rezlescu, C. Doroftei, E. Rezlescu and P. D. Popa <i>INCDFT-IFT Iasi</i>
78.	Some nanostructured ferrimagnetic compounds as reducing gas sensing material	4 th International Workshop on Amorphous and Nanostructured Magnetic Materials-ANMM'2007, Iasi, August 29-31, 2007	N. Rezlescu, C. Doroftei, E. Rezlescu and F. Tudorache <i>INCDFT-IFT Iasi</i>
79.	Nanostructured soft ferrites sensitive to water vapour	4 th International Workshop on Amorphous and Nanostructured Magnetic Materials-ANMM'2007, Iasi, August 29-31, 2007	E. Rezlescu, F. Tudorache, N. Rezlescu and C. Doroftei <i>INCDFT-IFT Iasi</i>
80.	Gas sensing properties of samarium substituted lithium ferrite	International conference on fundamental and applied research in physics (PHARPhys 2007), "AL.I.Cuza" Iasi University, Iasi 25 - 27 October, 2007	C. Doroftei, E. Rezlescu, N. Rezlescu and P.D. Popa <i>INCDFT-IFT Iasi</i>
81.	The effect of additives and sintering temperature on the structure and humidity sensitivity of a spinel ferrite	International conference on fundamental and applied research in physics (PHARPhys 2007), "AL.I.Cuza" Iasi University, Iasi 25 - 27 October, 2007	N. Rezlescu, F. Tudorache, E. Rezlescu and P.D. Popa <i>INCDFT-IFT Iasi</i>
82.	An Optically Analysis Of Phases Separation In Ferrofluids With Polyvinyl Alcohol Base	International Conference on Materials Science & Engineering - BRAMAT 2007, Brasov, Romania, 22 - 24 February, 2007.	V. BĂDESCU, O. ROTARIU, L. E. UDREA, G. APREOTESEI <i>INCDFT-IFT Iasi</i>

			<i>Universitatea Tehnică "Gh. Asachi" Iasi</i>
83.	Preparation And Characterization Of Uniform Calcium Alginate Magnetic Beads By Membrane Emulsification	International Conference on Materials Science & Engineering – BRAMAT 2007, Brasov, Romania, 22 – 24 February, 2007.	V. BĂDESCU, L. E. UDREA, G. APREOTESEI, R. BĂDESCU <i>INCDFE-IFT Iași Universitatea Tehnică "Gh. Asachi" Iasi</i>
84.	On Preparation Of Magnetic Beads By Capillary Flow Focusing Emulsification Technique And Polymerization	International Conference on Materials Science & Engineering – BRAMAT 2007, Brasov, Romania, 22 – 24 February, 2007.	V. BĂDESCU, L.E. UDREA, M.I. POPA, R. BĂDESCU <i>INCDFE-IFT Iași Universitatea Tehnică "Gh. Asachi" Iasi</i>
85.	An Experimental And Theoretical Study Of Birefringence Relaxation In An Aqueous Ferrofluid	8th International Balkan Workshop On Applied Physics July 5-7th, 2007, Constanta, Romania	Vasile BĂDESCU, Rodica BĂDESCU, Gabriela APREOTESEI, Laura Elena UDREA, Ovidiu ROTARIU <i>INCDFE-IFT Iași Universitatea Tehnică "Gh. Asachi" Iasi</i>
86.	Aqueous Ferrofluid Of Double-Layer Coated Magnetite Particles	8th International Balkan Workshop On Applied Physics July 5-7th, 2007, Constanta, Romania	Laura Elena UDREA, Ovidiu ROTARIU, Vasile BĂDESCU, Rodica BĂDESCU and Gabriela APREOTESEI <i>INCDFE-IFT Iași Universitatea Tehnică "Gh. Asachi" Iasi</i>
87.	Preparation And Characterization Of Uniform Calcium Alginate Magnetic Beads By Microfluidic Techniques	4th International Workshop on Amorphous and Nanostructured Magnetic Materials, ANMM'2007, 29-31 August 2007, Iași, Romania, 2007.	V. Bădescu, L.E. Udrea, O. Rotariu, R. Bădescu, G. Apreotesei <i>INCDFE-IFT Iași Universitatea Tehnică "Gh. Asachi" Iasi</i>
88.	Some Experimental Results On Encapsulation Of Phenols In Superparamagnetic Polymer Microspheres	4th International Workshop on Amorphous and Nanostructured Magnetic Materials, ANMM'2007, 29-31 August 2007, Iași, Romania, 2007.	V. Bădescu, L.E. Udrea, O. Rotariu, R. Bădescu, G. Apreotesei <i>INCDFE-IFT Iași Universitatea Tehnică "Gh. Asachi" Iasi</i>
89.	On Preparation Of Magnetic Microbeads By Two Microfluidic	15 th Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, 19-22	Vasile BĂDESCU, Laura Elena UDREA, Ovidiu

	Emulsification Techniques And Polymerization	sept. 2007	ROȚARIU, Rodica BĂDESCU, Gabriela APREOTESEI <i>INCDFE-IFT Iași Universitatea Tehnică "Gh. Asachi" Iași</i>
90.	Optical testing of ferrofluids prepared by in-situ precipitation of magnetite for biotechnological applications	15 th Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, 19-22 sept. 2007	G. Apreotesei, R. Bădescu, L.E. Udrea, O. Rotariu, V. Bădescu <i>Universitatea Tehnică "Gh. Asachi" Iași INCDFE-IFT Iași</i>
91.	A new technique to study the magnetic nanomaterials – the virtual experiment	4th International Workshop on Amorphous and Nanostructured Magnetic Materials, ANMM'2007, 29-31 August 2007, Iași, Romania	S. Mohorianu, F.-V. Rusu, M. Lozovan <i>INCDFE-IFT Iași</i>
92.	ANN based new IT method for the nanomagnetic materials design	International Conference On Materials Science & Engineering Brasov Materials 2007, February 22-24, 2007, Brasov - Romania	S. Mohorianu, M. Lozovan <i>INCDFE-IFT Iași</i>
93.	Structure and transport mechanisms in gd-substituted manganites	International Conference On Materials Science & Engineering Brasov Materials 2007, February 22-24, 2007, Brasov - Romania	M.-L.Craus, M. Lozovan <i>INCDFE-IFT Iași</i>
94.	On some physical properties of Ni <sub>50+x</sub> Mn <sub>25</sub> Ga <sub>25-x</sub> shape memory alloys	International Conference On Materials Science & Engineering Brasov Materials 2007, February 22-24, 2007, Brasov – Romania	V. Dobrea, M. Lozovan <i>INCDFE-IFT Iași</i>
95.	Ultrasound and eddy current data fusion for evaluation of carbon-epoxy composites delaminations	Emerging Technologies in Non-Destructive Testing, ETNNDT Fourth International Conference, Stuttgart, Germania	Raimond Grimberg, Rozina Steigmann, Sorin Leitoiu, Aurel Andreescu, Adriana Savin, <i>INCDFE-IFT Iași</i>
96.	An electromagnetic non-invasive examination technique of Björk-Shiley Convexo-Concave Prosthetic heart valve: degradation modeling and periodic clinical controls optimization using Markov model,	Emerging Technologies in Non-Destructive Testing, ETNNDT Fourth International Conference, April 2-4, 2007 Stuttgart	Raimond Grimberg, Shiu C.Chan, Adriana Savin, Rozina Steigmann, Florina Pinte, Lalita Udpa, Satish S. Udpa, <i>INCDFE-IFT Iași Michigan Univ., USA Spitalul Clinic de Urgență Militar Central, București</i>
97.	Inverse problem for the EC transducer with rotating magnetic field; application to pressure tubes inspection for PHWR nuclear power plant	Emerging Technologies in Non-Destructive Testing, ETNNDT Fourth International Conference, April 2-4, 2007 Stuttgart	Raimond Grimberg, Adriana Savin, Rozina Steigmann, Alina Bruma, Lalita Udpa, Satish S. Udpa

			<i>INCDFT-IFT Iași Michigan Univ., USA</i>
98.	NDT data fusion using theory of evidence	IV Pan American Conference on END, Buenos Aires Argentina, 22-27 October 2007	Raimond Grimberg, Adriana Savin, Rozina Steigmann, Nicoleta Iftimie <i>INCDFT-IFT Iași</i>
99.	Eddy current evaluation of pressure tubes from PHWR CANDU type	IV Pan American Conference on END, Buenos Aires Argentina, 22-27 October 2007	Raimond Grimberg, Adriana Savin, Rozina Steigmann, Sorin Leitoiu, Marta Clelia Ruch, <i>INCDFT-IFT Iași ENDE - AAENDE - Argentina</i>
100.	Flaw detection and characterization of pressure tubes from CANDU PHWR using eddy current methods,	6th International Conference on NDE in Relation to Structural Integrity for Nuclear and Pressurised Components, 8 – 10 October 2007 , Budapest, Hungary	Raimond Grimberg, Marta Clelia Ruch, Adriana Savin, Rozina Steigmann, Alina Bruma, Lalita Udpa, Satish S.Udpa <i>INCDFT-IFT Iași CNEA-AAENDE – Argentina Michigan Univ., USA</i>
101.	Hidden Markov chain model for lifetime prediction of pressure tubes in PHWR nuclear power plant,	6th International Conference on NDE in Relation to Structural Integrity for Nuclear and Pressurised Components, 8 – 10 October 2007 , Budapest, Hungary	Raimond Grimberg, Marta Ruch Rozina Steigmann, Nicoleta Iftimie, Sorin Leitoiu, Lalita Udpa, Satish S.Udpa <i>INCDFT-IFT Iași CNEA-AAENDE ) – Argentina Michigan Univ., USA</i>
102.	Examination And Monitoring Of Carbon-Epoxy Composites Structures	The 4th International Conference of Non-Destructive Testing (4th ICNDT) Chania, Greece, October 11-14 2007	Raimond Grimberg, Adriana Savin, Sorin Leitoiu, Nicoleta Iftimie, Alina Bruma, Aurel Andreescu <i>INCDFT-IFT Iași</i>
103.	Automatic eddy current data analysis,	The 4th International Conference of Non-Destructive Testing (4th ICNDT) Chania, Greece, October 11-14 2007	Raimond Grimberg, Adriana Savin, Sorin Leitoiu, Alina Bruma, Rozina Steigmann, Lalita Udpa, Satish

			S.Udpa <i>INCDFT-IFT Iași</i> <i>Michigan Univ.,</i> <i>USA</i>
104.	Electromagnetic transducer for the determination of soil condition,	13th International Symposium on Applied Electromagnetics and Mechanics (ISEM Michigan , USA, September 9 - 12, 2007	Lalita Udpa, Satish S. Udpa, Raimond Grimberg <i>INCDFT-IFT Iași</i>
105.	Eddy current and ultrasound data fusion applied to nondestructive evaluation of carbon–epoxy composite plates	13th International Symposium on Applied Electromagnetics and Mechanics (ISEM), Michigan , USA, September 9 - 12, 2007	Raimond Grimberg, Adriana Savin, Rozina Steigmann, Lalita Udpa, Satish S. Udpa <i>INCDFT-IFT Iași</i>
106.	Lifetime prediction of pressure tubes in PHWR Nuclear Power Plants using eddy current data,	The 12 <sup>th</sup> international Workshop on Electromagnetic Nondestructive Evaluation, Cardiff, UK, June 19-21, 2007	Raimond Grimberg, Adriana Savin, Rozina Steigmann, Aurel Andreescu, Nicoleta Iftimie, Marius Mihai Cazacu <i>INCDFT-IFT Iași</i>
107.	Noninvasive characterization of Bjork-Shiley convexo-concave prosthetic heart valves using an electromagnetic method	The 12 <sup>th</sup> international Workshop on Electromagnetic Nondestructive Evaluation, Cardiff, UK, June 19-21, 2007	Raimond Grimberg, Shiu C. Chan, Adriana Savin, Lalita Udpa, Satish S.Udpa <i>INCDFT-IFT Iași</i>
108.	Remote field eddy current control using rotating magnetic field transducer, Application to pressure tubes examination,	The 12 <sup>th</sup> international Workshop on Electromagnetic Nondestructive Evaluation, Cardiff, UK, June 19-21, 2007	Adriana Savin, Lalita Udpa, Rozina Steigmann, Alina Bruma, Raimond Grimberg, Satish S.Udpa <i>INCDFT-IFT Iași</i> <i>Michigan Univ.,</i> <i>USA</i>



**ANEXA nr. 5.3**
**LISTA modelelor, normativelor, procedurilor, metodologiilor, grupate pe ani**

<b>Număr de modele, normative, proceduri, medologii 1 Noiembrie 2002 – 30 Octombrie 2007</b>	<b>din care:</b>
<b>200</b>	<ul style="list-style-type: none"> <li>• 77 modele</li> <li>• 80 normative</li> <li>• 7 metodologii</li> <li>• 36 proceduri</li> </ul>

Nr. Crt.	Proiect Contract	Rezultat	Luna
<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Anul 2002</b>			
1.	Model funcțional de 'Filtru magnetic pentru separarea globulelor roșii'. <u>Proiect</u> : Filtru magnetic cu gradient înalt de câmp pentru separarea globulelor roșii din sângele uman. PNC DI – INVENT, Contract nr.21 /08.10.2001, Act Adițional nr.2/2002	Model funcțional	Noiembrie
2.	Modelarea fizică și numerică a fenomenului de oboseală mecanică și termică. <u>Proiect</u> : Sisteme avansate de evaluare nedistructivă a fenomenelor de oboseală mecanică și/sau termică a structurilor mecanice complexe. PNC DI – CERES, Contract nr.50/13.11.2002	Model fizic	Decembrie
<b>Anul 2003</b>			
1.	Model fenomenologic asupra structurilor și interacțiunilor inter și intra clusteri magnetici. <u>Proiect</u> : Investigații asupra mecanismelor microscopice ale transformărilor magnetice și structurale de fază din materiale amorfe masive cu structuri magnetice discontinue. PNC DI – CERES, Contract nr.2/15.10.2001, Act Aditiional nr.1/2003	Model fizic	Iunie
2.	Model experimental de instalație tehnologică de laborator pentru obținerea purtătorilor magnetici amorfi ITL-PMA. <u>Proiect</u> : Purtători magnetici din material magnetic amorf pentru aplicații medicale. PNC DI – RELANSIN, Contract nr. 43/20.07.2002, Act Aditiional nr.1/2003	Model experimental	Noiembrie
3.	Modelare micromagnetică a rețelelor de nanofire simple și multistrat. <u>Proiect</u> : Investigarea proceselor de magnetizare și a fenomenelor de magneto-transport în sisteme magnetice formate din rețele de fire nanometrice. PNC DI – CERES, Contract nr.1/15.10.2001, Act Aditiional nr.3/2002	Model fizic	Decembrie
4.	Model teoretic, verificat experimental, pentru calculul distribuțiilor de anizotropie magnetică din regiune a superficială a firelor, benzilor și microfiredelor amorfe și nanostructurale. <u>Proiect</u> : Studiul proceselor de magnetizare superficială în materiale feromagnetice amorfe și nanostructurate PNC DI – CERES, Contract nr.3/15.10.2001	Model fizic	Decembrie
5.	Model experimental de traductor bazat pe arii de micro și nanosenzori.	Model experimental	Decembrie

	<u>Proiect</u> : Sisteme avansate de evaluare nedistructivă a fenomenelor de oboseală mecanică și/sau termică a structurilor mecanice complexe. PNCDI – CERES, Contract nr.50/13.11.2002		
6.	Caiet de sarcini al produsului Militeslametru pentru campuri continue 2 – mTc-2. <u>Proiect</u> : Cercetari privind realizarea unui sistem performant de detectie si masurare a campului magnetic rezidual la produsele industriale. PNCDI – CALIST, Contractul nr. 2148/10.10.2001, Act Adițional nr.2/13.02.2003	Normativ	Mai
7.	Carte tehnica a produsului Militeslametru pentru campuri continue 2 – mTc-2. <u>Proiect</u> : Cercetari privind realizarea unui sistem performant de detectie si masurare a campului magnetic rezidual la produsele industriale PNCDI – CALIST, Contractul nr. 2148 /10.10.2001, Act Adițional nr.2 /13.02.2003.	Normativ	Mai
8.	Prototip Militeslametru pentru campuri continue 3 – mTc-3. <u>Proiect</u> : Cercetari privind realizarea unui sistem performant de detectie si masurare a campului magnetic rezidual la produsele industriale. PNCDI – CALIST, Contractul nr. 2148 /10.10.2001, Act Adițional nr.2/13.02.2003	Prototip	Octombrie
9.	Caiet de sarcini al produsului Militeslametru pentru campuri continue 3 – mTc-3. <u>Proiect</u> : Cercetari privind realizarea unui sistem performant de detectie si masurare a campului magnetic rezidual la produsele industriale PNCDI – CALIST, Contractul nr. 2148 /10.10.2001, Act Adițional nr.2/13.02.2003	Normativ	Octombrie
10.	Carte tehnica a produsului Militeslametru pentru campuri continue 3 – mTc-3. <u>Proiect</u> : Cercetari privind realizarea unui sistem performant de detectie si masurare a campului magnetic rezidual la produsele industriale. PNCDI – CALIST, Contractul nr. 2148 /10.10.2001, Act Adițional nr.2/13.02.2003	Normativ	Octombrie
<b>Anul 2004</b>			
1.	Instalație experimentală pentru studiul magnetorezistenței sistemelor de nanofire a rețelelor de nanofire simple și multistrat. <u>Proiect</u> : Investigarea proceselor de magnetizare și a fenomenelor de magneto-transport în sisteme magnetice formate din rețele de fire nanometrice PNCDI – CERES, Contract nr.1/15.10.2001, Act Adițional nr.1/2003	Model experimental	Martie
2.	Modelarea fenomenelor de magnetotrasport în current continuu (magnetorezistență) și alternative (magnetoimpedanță) care au loc în sisteme de nanofire. <u>Proiect</u> : Investigarea proceselor de magnetizare și a fenomenelor de magneto-transport în sisteme magnetice formate din rețele de fire nanometrice. PNCDI – CERES, Contract nr.1/15.10.2001, Act Adițional nr.1/2003	Model fizic	Iunie
3.	Model teoretic complex pentru descrierea și explicarea unitară a proceselor de magnetizare și a fenomenelor	Model fizic	Decembrie

	de magnetotransport care au loc în sisteme magnetice de nanofire. <u>Proiect</u> : Investigarea proceselor de magnetizare și a fenomenelor de magneto-transport în sisteme magnetice formate din rețele de fire nanometrice. PNCDI – CERES, Contract nr.1/15.10.2001, Act Aditional nr.1/2003		
4.	Model fenomenologic de tip Preisach-Neel pentru descrierea macroscopică a proceselor de magnetizare a aliajelor amorfe masive. <u>Proiect</u> : Investiția asupra mecanismelor microscopice ale transformărilor magnetice și structurale de fază din materiale amorfe masive cu structuri magnetice discontinui PNCDI – CERES, Contract nr.2/15.10.2001, Act Aditional nr.1/2003	Model fizic	Iunie
5.	Model unitar pentru explicarea comportării magnetice specifice a aliajelor amorfe masive pe bază de Nd-Fe cu structuri magnetice discontinui. <u>Proiect</u> : Investiția asupra mecanismelor microscopice ale transformărilor magnetice și structurale de fază din materiale amorfe masive cu structuri magnetice discontinui PNCDI – CERES, Contract nr.2/15.10.2001, Act Aditional nr.1/2003	Model fizic	Decembrie
6.	Model de senzor de umiditate <u>Proiect</u> : Cercetări privind posibilitatea folosirii unor ferite ca senzori de umiditate PNCDI – CERES, Contract nr.4/15.10.2001/Act Aditional 1/2004	Model experimental	Iunie
7.	Model micromagnetic generalizat pentru nanostructuri magnetice dure. <u>Proiect</u> : Studiul sistemelor nanostructurate cu proprietăți de magnet permanent. PNCDI – CERES, Contract nr.47/13.11.2002, Act Aditional nr.1/2004	Model fizic	August
8.	Sistem EXPERT STCI – bază de cunoștințe în domeniul Supraconductibilității la Temperatură Critică Înaltă. <u>Proiect</u> : Pachet de programe bazat pe algoritmi genetici și rețele neuronale cu aplicații în fizica supraconductorilor ceramici PNCDI – CERES, Contract nr.57/13.11.2002/ Act Aditional nr.1/2004	Model fizic	Octombrie
9.	Model experimental de separator/filtru magnetic. <u>Proiect</u> : Separator / filtru magnetic pentru particule superparamagnetice suport în ingineria proceselor biotehnologice și ecologice PNCDI – CERES; Contract nr. 3-2/03.11.2003, Act Aditional nr.1/2004	Model experimental	Octombrie
10.	Model experimental de microinductori magnetici planari, în structură simplă și suspendată. <u>Proiect</u> : Microinductori magnetici planari, în structuri simple și suspendate pentru circuite integrate cu aplicații în comunicații. PNCDI – MATNANTECH; Contract nr. 177(308)/30.10.2003/ Act Aditional nr.1/2004	2 Modele experimentale	Noiembrie
11.	Modelarea traiectoriilor purtătorilor magnetici PM sub acțiunea forțelor magnetice și hidrodinamice.	Model fizic	Decembrie

	<u>Proiect</u> : Studii pentru transportul și fixarea la țintă a nano și micro-capsulelor magnetice în scopuri terapeutice. PNCDI – CERES; Contract nr. 4- 253 /02.12.2004		
12.	Metodologie de măsurare a câmpurilor magnetice alternative din domeniul 0 – 500 $\mu$ T cu frecvențe cuprinse în domeniul 0 – 1 kHz. <u>Proiect</u> : Metode și tehnici pentru calibrare și verificare în câmpuri magnetice alternative PNCDI – CALIST, Contractul nr. 4122 /28.07.2003	Metodologie	Februarie
13.	Lanț magnetometric cu eroare sub 1% pentru câmpuri magnetice alternative în domeniul 0 – 500 $\mu$ T, 0 – 1 kHz. <u>Proiect</u> : Metode și tehnici pentru calibrare și verificare în câmpuri magnetice alternative PNCDI – CALIST, Contractul nr. 4122 /28.07.2003	Model experimental	Februarie
14.	Metodologie de măsurare a câmpurilor magnetice alternative din domeniul 0 – 20 mT cu frecvențe cuprinse în domeniul 0 – 100 kHz. <u>Proiect</u> : Metode și tehnici pentru calibrare și verificare în câmpuri magnetice alternative. PNCDI – CALIST, Contractul nr. 4122 /28.07.2003, Act Adițional nr.2/04.04.2004	Metodologie	Septembrie
15.	Lanț magnetometric cu eroare sub 1% pentru câmpuri magnetice alternative în domeniul 0 – 20 mT cu frecvențe cuprinse în domeniul 0 – 100 kHz. <u>Proiect</u> : Metode și tehnici pentru calibrare și verificare în câmpuri magnetice alternative PNCDI – CALIST, Contractul nr. 4122 /28.07.2003, Act Adițional nr.2/04.04.2004	Model experimental	Septembrie
<b>Anul 2005</b>			
1.	Model experimental de dispozitiv de termostatare DT -01. <u>Proiect</u> : Dispozitiv de termostatare PNCDI – INVENT, Contract nr. 84/22.10.2003, Act Adicional nr.1/2004	Model experimental	Ianuarie
2.	Model experimental de echipament pentru măsurarea parametrilor fizico – mecanici, determinarea dezlipirilor și reconstrucția formei obiectelor la materiale lemnoase multistrat. <u>Proiect</u> : Sisteme avansate de reconstrucția formei și de determinare a parametrilor fizico-mecanici a obiectelor 2D și 3D în materiale compozite multistrat utilizând tehnici de ultrasunete ; aplicații. PNCDI – CERES; Contract nr. 3-4/05.11.2003, Act Adicional nr.1/2004	Model experimental	Martie
3.	Model experimental de traductor dual de presiune și temperatură. <u>Proiect</u> : Traductor electric de presiune și temperatură pe bază de materiale amorfe și cristaline sub formă de straturi subțiri. PNCDI – INVENT; Contract nr. 85/30.09.2003, Act Adicional nr.1/2004	Model experimental	Aprilie
4.	Modelarea comportării magnetice a sistemelor multifazice nanostructurate magnetic dure sub formă de eșantioane masive. <u>Proiect</u> : Nou procedeu de obținere a magneților nanocristalini pe bază de pământuri rare în formă masivă. Modelare și proiectare compozițională,	Model fizic	Iunie

	structurală și a proprietăților magnetice PNCDI – CERES; Contract nr. 3-60/06.11.2003, Act Adițional nr.2/2005		
5.	Model experimental de actuator pe bază de aliaj cu memoria formei. <u>Proiect</u> : Influența modificărilor asupra structurii, deformabilității și caracteristicilor de material cu memoria formei la aliaje din sistemul (Cu,Ni)- (Co,Mn)-(Al,Ga,Sb) PNCDI – MATNANTECH; Contract nr. 159(302)/28.10.2003, Act Adițional nr.1/2004	Model experimental	Iunie
6.	Model experimental de sisteme de captare /deviere a purtaătorilor magnetici PM. <u>Proiect</u> : Studii pentru transportul și fixarea la țintă a nano și micro - capsulelor magnetice în scopuri terapeutice PNCDI – CERES; Contract nr. 4- 253 /02.12.2004	Model experimental	Octombrie
7.	Modele experimentale de sisteme de emulsificare o/w (emulsificator cu membrană tubulară ; emulsificator cu tuburi capilare coaxiale). <u>Proiect</u> : Emulsii ferofluidice monodisperse – preparare și caracterizare PNCDI – CERES; Contract nr. 4 - 257 /02.12.2004	2 Modele experimentale	Noiembrie
8.	Metodologie de calibrare și verificare în câmpuri magnetice alternative. <u>Proiect</u> : Metode si tehnici pentru calibrare si verificare in campuri magnetice alternative. PNCDI – CALIST, Contractul nr. 4122 /28.07.2003, Act Adițional nr.3/12.01.2005	Metodologie	Martie
9.	Stand pentru calibrare și verificare în câmpuri magnetice alternative – SCAV. <u>Proiect</u> : Metode si tehnici pentru calibrare si verificare in campuri magnetice alternative. PNCDI – CALIST, Contractul nr. 4122 /28.07.2003, Act Adițional nr.3/12.01.2005	Model functional	Martie
10.	Caiet de sarcini Stand pentru calibrare și verificare în câmpuri magnetice alternative – SCAV. <u>Proiect</u> : Metode si tehnici pentru calibrare si verificare in campuri magnetice alternative. PNCDI – CALIST, Contractul nr. 4122 /28.07.2003, Act Adițional nr.3/12.01.2005	Normativ	Martie
11.	Manual de utilizare pentru Stand pentru calibrare și verificare în câmpuri magnetice alternative – SCAV. <u>Proiect</u> : Metode si tehnici pentru calibrare si verificare in campuri magnetice alternative. PNCDI – CALIST, Contractul nr. 4122 /28.07.2003, Act Adițional nr.3/12.01.2005	Normativ	Martie
<b>Anul 2006</b>			
1.	Model fenomenologic pentru comportarea magnetică a nanopulberilor. <u>Proiect</u> : Procese de magnetizare în nanopulberi magnetice din materiale de tranziție și aliaje ale acestora. PNCDI – CERES, Contract nr. 4-234/02.12.2004	Model fizic	Septembrie
2.	Stand de testare a caracteristicilor magnetorezistive ale materialelor sub formă masivă și sub formă de pături subțiri. <u>Proiect</u> : Cercetări privind magnetorezistența extrinsecă și intrinsecă la manganizi simpli de	Model experimental	Septembrie

	compoziție $(Ln, Ln')_{1-x}(Alk)_x(Mn, T)O_3$ cu adaosuri de (Na, K). PNCIDI – CERES, Contract nr. 4-207/15.11.2004		
3.	Sisteme experimentale de pătrundere a PM în medii biologice. <u>Proiect</u> : Studii pentru transportul și fixarea la țintă a nano și micro - capsulelor magnetice în scopuri terapeutice. PNCIDI – CERES; Contract nr. 4- 253 /02.12.2004	Model experimental	Iunie
4.	Senzori de gaze sau vapori. <u>Proiect</u> : Cercetări privind îmbunătățirea caracteristicilor specifice ale unor materiale oxidice semiconductoare în scopul utilizării lor la detecția gazelor sau vaporilor din aer PNCIDI – CERES; Contract nr. 4- 64 /04.11.2004	Model experimental	Septembrie
5.	Manualul Calității laboratorului de încercări (analize) pentru materiale și dispozitive magnetice LIAMDM, editia 3. <u>Proiect</u> : Laborator de încercări (analize) pentru materiale și dispozitive magnetice. PNCIDI – INFRAS, Contract nr. 220/04.10.2004	Normativ	Mai
5.	Proceduri generale de management și asigurare a calității activităților de execuție a măsurărilor/încercărilor / analizelor în cadrul laboratorului LIAMDM, editia 2 <u>Proiect</u> : Laborator de încercări (analize) pentru materiale și dispozitive magnetice. PNCIDI – INFRAS, Contract nr. 220/04.10.2004	13 Normative	Mai
6.	Proceduri specifice de management și asigurare a calității activităților de execuție a măsurărilor/încercărilor / analizelor în cadrul laboratorului LIAMDM, editia 1. <u>Proiect</u> : Laborator de încercări (analize) pentru materiale și dispozitive magnetice PNCIDI – INFRAS Contract nr. 220/04.10.2004	9 Normative	Mai
7.	Instrucțiuni de lucru, editia 1. <u>Proiect</u> : Laborator de încercări (analize) pentru materiale și dispozitive magnetice. PNCIDI – INFRAS, Contract nr. 220/04.10.2004	7 Normative	Mai
8.	Proceduri tehnologice noi pentru realizarea de materiale magnetostrictive amorfe / nanocristaline / policristaline: turnare continuă, atomizare, decărcare în arc, înglobare în rășini sintetice și polimerice, depuneri prin ablație laser. <u>Proiect</u> : Materiale magnetostrictive multifuncționale pentru sisteme hibride inteligente de senzori, actuatori și traductori. CEEX – Modul I, Contract nr. C 34 (/07.10.2005	5 Proceduri	Noiembrie
9.	Eșantioane sub formă de straturi subțiri, multistraturi hibride, benzi, probe masive, pulberi, plachete tridimensionale, materiale compozite – soluții noi compoziționale. <u>Proiect</u> : Materiale magnetostrictive multifuncționale pentru sisteme hibride inteligente de senzori, actuatori și traductori. CEEX – Modul I, Contract nr. C 34 /07.10.2005	7 Modele experimentale	Noiembrie
10.	Nanoargile anionice cu proprietăți mezoporoase și nanocompozite argile-copolimeri maleici. <u>Proiect</u> : Noi nanocompozite multifuncționale pe bază	2 Modele experimentale	Decembrie

	de argile poroase cu aplicații multidisciplinare. CEEX – Modul I, Contract nr. C 14 /07.10.2005		
11.	Rețele de elemente de detecție magnetorezistive și rețele de elemente de detecție GMI. <u>Proiect:</u> Biosenzori magnetic și magnetoelectrochimici pe bază de nanoparticule magnetice pentru detecția rapidă de biomolecule. CEEX – Modul I, Contract nr. 61 /28.07.2005	2 Modele experimentale	Decembrie
12.	Aliaje cu memoria formei obținute prin nanoinginerie. <u>Proiect:</u> Nanocontrol și multifuncționalitate în materiale, microstraturi și arhitecturi cu memoria formei. CEEX – Modul I, Subcontract nr. 4049 /19.10.2005 la Contractul	2 Modele experimentale	Decembrie
<b>Anul 2007</b>			
1.	Manualul Calității laboratorului de încercări (analize) pentru materiale și dispozitive magnetice LIAMDM, editia 4. <u>Proiect:</u> Extindere și îmbunătățire încercări (analize) pentru materiale și dispozitive magnetice. CEEX – Modul IV, Contractul nr. 63 /09.09.2005, Act Adicional nr.1/11.08.2006	Normativ	Ianuarie
2.	Proceduri generale de management și asigurare a calității activităților de execuție a măsurărilor/încercărilor / analizelor în cadrul laboratorului LIAMDM, editia 3. <u>Proiect:</u> Extindere și îmbunătățire încercări (analize) pentru materiale și dispozitive magnetice. CEEX – Modul IV, Contractul nr. 63 /09.09.2005, Act Adicional nr.1/11.08.2006	14 Normative	Ianuarie
3.	Proceduri specifice de management și asigurare a calității activităților de execuție a măsurărilor/încercărilor / analizelor în cadrul laboratorului LIAMDM, editia 1 și 2. <u>Proiect:</u> Extindere și îmbunătățire încercări (analize) pentru materiale și dispozitive magnetice. CEEX – Modul IV, Contractul nr. 63 /09.09.2005, Act Adicional nr.1/11.08.2006	15 Normative	Ianuarie
4.	Instrucțiuni de lucru, editia 1 și 2. <u>Proiect:</u> Extindere și îmbunătățire încercări (analize) pentru materiale și dispozitive magnetice. CEEX – Modul IV, Contractul nr. 63 /09.09.2005, Act Adicional nr.1/11.08.2006	14 Normative	Ianuarie
5.	Bionanocompozite argilă-medicament. <u>Proiect:</u> Noi nanocompozite multifuncționale pe bază de argile poroase cu aplicații multidisciplinare. CEEX – Modul I, Contract nr. C 14 /07.10.2005	2 Modele experimentale	Octombrie
6.	Biosenzor electrochimic clasic modificat la nivelul matricei de imobilizare a enzimei. <u>Proiect:</u> Biosenzori magnetic și magnetoelectrochimici pe bază de nanoparticule magnetice pentru detecția rapidă de biomolecule. CEEX – Modul I, Contract nr. 61 /28.07.2005	Modele experimentale	Septembrie
7.	Manganiți de compoziție LLAMnMO(M=Cu,Co) cu adaosuri de oxizi alcalini. <u>Proiect:</u> Faze electronice și mecanisme de transport în manganiți $(Ln, Ln')_{1-x}A_xMn_{1-y}O_{2+\delta}$ (Ln, Ln' = pământ rar; A= Sr, Ca, Ba, Pb, K; M=Cu,Cr, Co,V,Sc). CEEX – Modul I, Contract nr. 84 /22.09.2006	Model experimental	Iunie

8.	Aliaj cu memoria formei pentru actuatorul dispozitivului de termostatare. <u>Proiect:</u> Dispozitiv de termostatare cu actuator pe bază de aliaj cu memoria formei. CEEX – Modul I, Contract nr. 92 /22.09.2006	Model experimental	Iunie
9.	Model teoretic pentru monitorizarea structurilor din compozite carbon-epoxi utilizând "smart embedded sensors". <u>Proiect:</u> Sistem de management prin procedee neinvazive a caracteristicilor fizico mecanice, a fiabilității și degradării materialelor compozite, tehnologii "EMBEDDED" pentru monitorizare în timpul exploatării; aplicații la compozite lignocelulozice, structuri ușoare din materiale composite, composite nanostructurate Ro – Light. CEEX – Modul I, Contract nr. 49 /27.07.2006	Model fizic	Iulie
10.	Sisteme nanostructurate cu agenți farmacologici sintetici; Sisteme nanostructurate cu compuși polifenolici. <u>Proiect:</u> Noi sisteme nanostructurate utilizate pentru eliberarea controlată a agenților farmacologici – NANOCOFARM. CEEX – Modul I, Subcontract nr. 2/2006 la Contractul 108/09.10.2006 , Act Adicional nr.1/2007	2 Modele experimentale	Octombrie
11.	Software pentru sistem expert SE. <u>Proiect:</u> Sisteme expert pentru comanda sistemelor termice. CEEX – Modul I, Subcontract nr. 171-P2 /20.07.2006	Procedură	Octombrie
12.	Noi concepte sinergice de de evaluare neinvazivă a materialelor. <u>Proiect:</u> Metodologii și instrumente pentru proiectarea nano-electronică automată. CEEX – Modul I, Subcontract nr. 9 CEEX I 03 /06.10.2005	Metodologie	Iunie
13.	Echipament ultrasonic /EUS. <u>Proiect:</u> Sistem tehnologic performant pentru tragerea țevilor din oțeluri inoxidabile cu vibrații ultrasonice. CEEX – Modul I, Subcontract 4169 P /2006 la contractul 293 /13.09.2006	Model funcțional	Iulie
14.	Sistem de senzori magnetici nanostructurați și circuite conexe. <u>Proiect:</u> Sistem automat de examinare nedistructivă a componentelor feroviare de siguranță pe baza unor senzori magnetici nanostructurați. CEEX – Modul I, Subcontract 161 /19.10.2005 la Contractul 57/C33/2005	Model funcțional	Mai

### Program Nucleu

Nr. crt.	Proiect Contract Beneficiar	Rezultat	Luna
0	1	2	3
<b>Anul 2003</b>			
1.	Preparare purtători magnetici cu dimensiuni micrometrice și nanometrice. <u>Proiect:</u> PN 03-31 01 01/ Procese fizice în biosenzori magnetici. Act Adițional nr. 1 și 2/2003 la Contractul nr. 08N /05. 05.2003	2 Proceduri	Decembrie



	Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.		
2.	<p>Simulatoare - bază de date pentru măsurători experimentale:</p> <ul style="list-style-type: none"> <li>- Simulator al operațiunilor de control nedistructiv prin curenți turbionari SIMEDDY.</li> <li>- Simulator al operațiunilor de control cu ultrasunete USSIM.</li> </ul> <p><u>Proiect:</u> PN 03-31 01 05/ Dezvoltarea de metode fizice, tehnici, sensori și echipamente pentru evaluarea nedistructivă a materialelor noi și avansate: compozite, nano-materiale, materiale inteligente.</p> <p>Act Adițional nr. 1 și 2/2003 la Contractul nr. 08N/05. 05.2003</p> <p>Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.</p>	2 Proceduri	Noiembrie
3.	<p>Modelarea comportării patului fluidizat la tranziția de la regim stabil la regim instabil.</p> <p><u>Proiect:</u> PN 03-31 01 07 / Cercetări pentru fundamentarea fizică a proceselor de separare / filtrare în pat fluidizat stabilizat magnetic.</p> <p>Act Adițional nr. 1 și 2/2003 la Contractul nr. 08N/05. 05.2003</p> <p>Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.</p>	Model fizic	Octombrie
4.	<p>Proceduri noi de preparare a nanopulberilor magnetice:</p> <ul style="list-style-type: none"> <li>- procedură de preparare a nanopulberilor magnetice izolate superficial cu polivinilpirolidonă.</li> <li>- procedură de preparare a nanopulberilor magnetice izolate superficial cu carbon.</li> </ul> <p><u>Proiect:</u> PN 03-31 02 01/ Obținerea și studiul caracteristicilor fizice ale nanopulberilor magnetice izolate superficial.</p> <p>Act Adițional nr. 1 și 2/2003 la Contractul nr. 08N/05. 05.2003</p> <p>Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.</p>	2 Proceduri	Septembrie
5.	<p>Soluții noi compoziționale și de design pentru straturi subțiri nanocristaline și granulare.</p> <p><u>Proiect:</u> PN 03-31 02 03 /Straturi subțiri cu structuri nanocristaline și granulare, cu proprietăți magnetic moi sau de magnet permanent.</p> <p>Act Adițional nr. 1 și 2/2003 la Contractul nr. 08N/05. 05.2003</p> <p>Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.</p>	2 Proceduri	Decembrie
6.	<p>Tehnologie de realizare a materialelor amorfe și nanocristaline masive cu proprietăți magnetic moi prin tehnici convenționale de turnare.</p> <p><u>Proiect:</u> PN 03-31 02 04 / Fenomene și procese magnetice în materiale amorfe și nanocristaline masive pentru aplicații la frecvențe ridicate.</p> <p>Act Adițional nr. 1 și 2/2003 la Contractul nr. 08N/05. 05.2003</p> <p>Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.</p>	Procedură	Iulie
7.	Produce:	2 Modele	Noiembrie

	<p>- benzi magnetice amorfe și nanocristaline groase - probe magnetic moi amorfe și nanocristaline masive (toruri, cilindri, discuri, bare). <u>Proiect:</u> PN 03-31 02 04 / Fenomene și procese magnetice în materiale amorfe și nanocristaline masive pentru aplicații la frecvențe ridicate. Act Adițional nr. 1 și 2/2003 la Contractul nr. 08N/05.05.2003 Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.</p>	experimentale	
<b>Anul 2004</b>			
1.	<p>Modele analitice: simularea numerică a amplitudinii deflexiei, în funcție de specificitățile de material, design și parametrii magnetici ai structurilor magnetice suspendate sau de tip cantilever. <u>Proiect:</u> PN 03-31 01 02 / Studiul actuării magnetice în dispozitive MEMS. Act Adițional nr. 3 și 4/2004 la Contractul nr. 08N/05.05.2003 Beneficiar Ministerul Educației, Cercetării și Tineretului</p>	Metodologie	Septembrie
2.	<p>Preparare materiale de tip perovskiți dubli nanocristalini sau amorfi cu magnetorezistență gigant. <u>Proiect:</u> PN 03-31 01 03 / Fenomene magnetorezistive gigant la unele materiale nanocristaline și amorfe oxidice. Act Adițional nr. 3 și 4/2004 la Contractul nr. 08N/05.05.2003 Beneficiar Ministerul Educației, Cercetării și Tineretului</p>	2 Proceduri	Martie
3.	<p>Modele micromagnetice de tip Jacobi și Monte Carlo pentru simularea proceselor de magnetizare statică din ansambluri de nanofire feromagnetice amorfe. <u>Proiect:</u> PN 03-31 01 04/ Modelarea micromagnetică a ansamblurilor de nanofire feromagnetice amorfe cuplate magnetostatic. Act Adițional nr. 3 și 4/2004 la Contractul nr. 08N/05.05.2003 Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.</p>	2 Modele fizice	Septembrie
4.	<p>Stabilirea caracteristicilor funcționale optime ale senzorilor și aparatelor destinate evaluării gradului de poluare electromagnetică. <u>Proiect:</u> PN 03-31 01 06 Studiu de evaluare și caracterizare a unor surse de câmpuri electromagnetice poluante în corelație cu impactul asupra calității vieții. Act Adițional nr. 3 și 4/2004 la Contractul nr. 08N/05.05.2003 Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.</p>	Metodologie	Mai
5.	<p>Particule superparamagnetice micronice composite. <u>Proiect:</u> PN 03-31 01 07 / Cercetări pentru fundamentarea fizică a proceselor de separare / filtrare în pat fluidizat stabilizat magnetic. Act Adițional nr. 3 și 4/2004 la Contractul nr. 08N/05.05.2003 Beneficiar Ministerul Educației, Cercetării și</p>	Procedură	Noiembrie

	Tineretului – M.Ed.C.T.		
6.	Fire amorfe cu diferite garde de reducere a secțiunii prin trefilare la rece: preparare, caracterizare. <u>Proiect:</u> PN 03-31 02 02 / Efectul deformărilor mecanice și al tensiunilor induse asupra proprietăților magnetice ale firelor amorfe. Act Adițional nr. 3 și 4/2004 la Contractul nr. 08N/05.05.2003 Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.	Procedură	August
7.	Microbobină planară cu miez magnetic și rețea matricială planară de magneți permanenți. <u>Proiect:</u> PN 03-31 02 03 /Straturi subțiri cu structuri nanocristaline și granulare, cu proprietăți magnetice moi sau de magnet permanent Act Adițional nr. 3 și 4/2004 la Contractul nr. 08N /05.05.2003 Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.	Model experimental	Decembrie
8.	Tehnologie de preparare probe amorfe /nanocristaline masive în diferite forme predefinite prin compactizarea pulberilor obținute prin procedeul atomizării. <u>Proiect:</u> PN 03-31 02 04 / Fenomene și procese magnetice în materiale amorfe și nanocristaline masive pentru aplicații la frecvențe ridicate. Act Adițional nr. 3 și 4/2004 la Contractul nr. 08N /05.05.2003 Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.	Procedură	Aprilie
9.	Disc din aliaj $Fe_{65}Co_{10}Ga_5P_{12}C_4B_4$ cu diametrul 20 mm și grosimea 5 mm. <u>Proiect:</u> PN 03-31 02 04 / Fenomene și procese magnetice în materiale amorfe și nanocristaline masive pentru aplicații la frecvențe ridicate. Act Adițional nr. 3 și 4/2004 la Contractul nr. 08N /05.05.2003 Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.	Model experimental	August
10.	Model matematic pentru explicarea rezultatelor experimentale privind influența tubului supraconductor asupra caracteristicilor plasmei: compresia sau confinarea plasmei. <u>Proiect:</u> PN 03-31 02 05 / Studiul materialelor cu proprietăți magnetice și electrice speciale, în cadrul teoriei relativității de scară. Act Adițional nr. 3 și 4/2004 la Contractul nr. 08N /05.05.2003 Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.	Model fizic	August
<b>Anul 2005</b>			
1.	Materiale proprii pentru biosenzorul magnetic: - Microfire magnetice amorfe; - Micro și nanoparticule magnetice funcționalizate. <u>Proiect:</u> PN 03-31 01 01/ Procese fizice în biosenzori magnetici Act Adițional nr. 6/2005 la Contractul nr. 08N/05.05.2003 Beneficiar Ministerul Educației, Cercetării și	3 Proceduri	Aprilie

	Tineretului – M.Ed.C.T.		
2.	<p>Modele fizice care descriu interacția câmpului electromagnetic și a undelor elastice cu materialele compozite și structurate.</p> <p><u>Proiect</u>: PN 03-31 01 05/ Dezvoltarea de metode fizice, tehnici, senzori și echipamente pentru evaluarea nedistructivă a materialelor noi și avansate: compozite, nano-materiale, materiale inteligente.</p> <p>Act Adițional nr. 6/2005 la Contractul nr. 08N/05.05.2003</p> <p>Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.</p>	2 Modele fizice	Noiembrie
3.	<p>Senzori inductivi pentru pentru domeniul de frecvență 20 Hz - 100 kHz.</p> <p><u>Proiect</u>: PN 03-31 01 06 Studiu de evaluare și caracterizare a unor surse de câmpuri electromagnetice poluante în corelație cu impactul asupra calității vieții.</p> <p>Act Adițional nr. 6/2005 la Contractul nr. 08N/05.05.2003</p> <p>Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.</p>	2 Modele experimentale	Iunie
4.	<p>Testarea biocompatibilității și a biodegradabilității nanopulberilor magnetice izolate superficial.</p> <p><u>Proiect</u>: PN 03-31 02 01/ Obținerea și studiul caracteristicilor fizice ale nanopulberilor magnetice izolate superficial.</p> <p>Act Adițional nr. 6/2005 la Contractul nr. 08N/05.05.2003</p> <p>Beneficiar Ministerul Educației, Cercetării și Tineretului – M.Ed.C.T.</p>	Procedură	Aprilie
<b>Anul 2006</b>			
1.	<p>Metode fizice și chimice de preparare a particulelor de magnetită acoperite cu dextran.</p> <p><u>Proiect</u> : PN 06 38 01 01 / Purtători magnetici în terapii medicale moderne.</p> <p>Contractul nr. 38N/23. 01.2006</p> <p>Beneficiar Ministerul Educației și Cercetării – M.Ed.C - ANCS.</p>	Procedeu	Decembrie
2.	<p>Rețea de elemente de detecție de tip GMI pe bază de microfibre amorfe acoperite cu sticlă.</p> <p><u>Proiect</u> : PN 06 38 01 02 / Rețele de microsenzori magnetici în aplicații biomedicale.</p> <p>Contractul nr. 38N/23. 01.2006</p> <p>Beneficiar Ministerul Educației și Cercetării – M.Ed.C - ANCS.</p>	Model experimental	
3.	<p>Model fizic pentru studiul distribuției hidrogenului /deuteriului în aliaje de Zr în prezența gradientilor termici și de tensiuni mecanice.</p> <p><u>Proiect</u>: PN 06 38 01 03 / Procese fizice sub acțiunea hidrogenului și deuteriului în aliaje pe bază de zirconiu. Evaluare prin procedee electromagnetice.</p> <p>Contractul nr. 38N/23. 01.2006</p> <p>Beneficiar Ministerul Educației și Cercetării – M.Ed.C - ANCS.</p>	Model fizic	
4.	<p>Metodă experimentală pentru măsurarea transmitanței în fluide magnetice.</p> <p><u>Proiect</u>: PN 06 38 01 04/ Studiul relaxării</p>	Procedură	

	birefringenței și dicroismului în fluide magnetice. Contractul nr. 38N/23. 01.2006 Beneficiar Ministerul Educației și Cercetării – M.Ed.C – ANCS.		
5.	Dopanți ai hidruților de magneziu: micro și nanopulberi din Ni, Co și aliaje ale acestora ( $\text{Co}_{90}\text{Ni}_{10}$ , $\text{Co}_{62,25}\text{Fe}_{4,5}\text{Si}_{12,5}\text{B}_{15}$ ) preparate prin metoda reducerii chimice, descărcării în arc și atomizării. <u>Proiect</u> : PN 06 38 02 01/ Micro și nanopulberi magnetice pentru stocarea hidrogenului. Contractul nr. 38N/23. 01.2006 Beneficiar Ministerul Educației și Cercetării – M.Ed.C – ANCS.	3 Proceduri	
6.	Pulberi amorfe și nanocristaline: - pulberi obținute prin măcinarea benzilor amorfe și nanocristaline având compozițiile: $\text{Nd}_9\text{Fe}_{86}\text{B}_5$ ; $\text{Pr}_9\text{Fe}_{86}\text{B}_5$ ; $\text{Nd}_9\text{Fe}_{79}\text{B}_{12}$ ; $\text{Pr}_9\text{Fe}_{79}\text{B}_{12}$ . - nanopulberi $[\text{Nd}_x(\text{YDy})_{1/2(1-x)}]_{2,2}\text{Fe}_{14}\text{B}$ obținute prin descărcare în arc și atomizare în atmosferă de He. <u>Proiect</u> : PN 06 38 02 02/ Interacțiuni magnetice și transformări structurale de fază în magneți permanenți nanocompoziți. Contractul nr. 38N/23. 01.2006 Beneficiar Ministerul Educației și Cercetării – M.Ed.C – ANCS.	3 Proceduri	
7.	Bază de date: Construcția Bazei de Date Primare. Stocarea, indexarea și ordonarea datelor primare în Baza de Date. <u>Proiect</u> : PN 06 38 02 04 / Proiectarea și studiul unor noi materiale magnetice cu proprietati Hall și magnetorezistive superioare. Contractul nr. 38N/23. 01.2006 Beneficiar Ministerul Educației și Cercetării – M.Ed.C – ANCS.	Metodologie	
<b>Anul 2007</b>			
1.	Purtători magnetici : Particule magnetice cu temperatură Curie controlată pentru utilizare în hipertermia indusă electromagnetic. <u>Proiect</u> : PN 06 38 01 01 / Purtători magnetici în terapii medicale moderne. Act Adițional nr. 1 și 2/2007 la Contractul nr. 38N /23. 01.2006 Beneficiar Ministerul Educației și Cercetării – M.Ed.C - ANCS.	Model experimental	Octombrie
2.	Procedură de evaluare a capacității de legare a particulelor magnetice funcționalizate la suprafața elementelor de detecție GMI. <u>Proiect</u> : PN 06 38 01 02 /_Rețele de microsenzori magnetici în aplicații biomedicale Act Adițional nr. 1 și 2/2007 la Contractul nr. 38N /23. 01.2006 Beneficiar Ministerul Educației și Cercetării – M.Ed.C - ANCS.	Procedură	Martie
3.	Model fizic pentru studiul dezvoltării fisurilor tip DHC; cod numeric de simulare a dezvoltării fisurilor. <u>Proiect</u> : PN 06 38 01 03 / Procese fizice sub acțiunea hidrogenului și deuteriului în aliaje pe bază de zirconiu. Evaluare prin procedee electromagnetice Act Adițional nr. 1 și 2/2007 la Contractul nr. 38N	Model fizic	August

	/23. 01.2006 Beneficiar Ministerul Educației și Cercetării – M.Ed.C - ANCS.		
4.	Proceduri: Metodă experimentală pentru studiul relaxării dicroismului în fluide magnetice; Metodă experimentală pentru studiul birefrigenței în fluide magnetice. <u>Proiect</u> : PN 06 38 01 04/ Studiul relaxării birefringenței și dicroismului în fluide magnetice. Act Adițional nr. 1 și 2/2007 la Contractul nr. 38N /23. 01.2006 Beneficiar Ministerul Educației și Cercetării – M.Ed.C – ANCS.	2 Proceduri	Iunie
5.	Studiul cineticii absorbției/desorbției hidrogenului în hidrurile de magneziu. <u>Proiect</u> : PN 06 38 02 01/ Micro și nanopulberi magnetice pentru stocarea hidrogenului. Act Adițional nr. 1 și 2/2007 la Contractul nr. 38N /23. 01.2006 Beneficiar Ministerul Educației și Cercetării – M.Ed.C – ANCS.	Procedură	August
6.	Eșantioane de magneți permanenți nanocompoziți preparați prin compactizare la diferite temperaturi, respective înglobare în polimeri a pulberilor amorfe și nanocristaline. <u>Proiect</u> : PN 06 38 02 02/ Interacțiuni magnetice și transformări structurale de fază în magneți permanenți nanocompoziți. Act Adițional nr. 1 și 2/2007 la Contractul nr. 38N /23. 01.2006 Beneficiar Ministerul Educației și Cercetării – M.Ed.C – ANCS.	Model experimental	Septembrie
7.	Structuri valvă de spin și SDT pentru senzori utilizați în detecția de câmpuri magnetice de valori reduse obținute prin depuneri succesive în vid. <u>Proiect</u> : PN 06 38 02 03 / Structuri GMR valvă de spin și SDT cu sensibilitate magnetorezistivă și stabilitate termică ridicată. Act Adițional nr. 1 și 2/2007 la Contractul nr. 38N /23. 01.2006 Beneficiar Ministerul Educației și Cercetării – M.Ed.C – ANCS.	Procedură	August
8.	Model teoretic pentru proiectarea de materiale magnetice din sistemele CoFeSiBMo și FeCrCuNbSiB. <u>Proiect</u> : PN 06 38 02 04 / Proiectarea și studiul unor noi materiale magnetice cu proprietati Hall și magnetorezistive superioare. Contractul nr. 38N/23. 01.2006 Beneficiar Ministerul Educației și Cercetării – M.Ed.C – ANCS.	Model fizic	Iunie
9.	Model teoretic pentru explicarea influenței caracteristicilor lentilelor diamagnetice asupra parametrilor fasciculelor de particule. <u>Proiect</u> : PN 06 38 02 05/ Studiul mecanismelor de transport și confinare a fasciculelor intense de particule încărcate relativist prin intermediul materialelor diamagnetice. Act Adițional nr. 1 și 2/2007 la Contractul nr. 38N/23. 01.2006	Model fizic	Aprilie

	Beneficiar Ministerul Educației și Cercetării – M.Ed.C – ANCS.		
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**ANEXA 7.1**
**Numărul și valoarea contractelor de cercetare internaționale finanțate din fonduri publice**

<b>Titlul proiectului și numărul de referință</b>	<b>Fondul, programul, EBI, etc., sau din altă sursă</b>	<b>Suma (EUR)</b>	<b>Perioada/ Valori defalcate pe ani</b>
"MAGNETOELASTIC ENERGY SYSTEMS FOR EVEN MORE ELECTRIC AIRCRAFT" – MESEMA	" <i>Specific Targeted Research or Innovation</i> " Project (STREP) în cadrul <i>Priorității 4 "Aeronautics and Space"</i> Contract nr.: AST3-CT-2003-502915	<b>149.071</b> (valoarea contractată INCDFT-IFT Iași)	Perioada: 2004-2007 2004: <b>38.000 EUR</b> 2005: <b>64.000 EUR</b> 2006: <b>40.000 EUR</b> 2007: <b>7.071 EUR</b>
"NETWORK FOR NANOSTRUCTURED MATERIALS OF ASSOCIATE CANDIDATE COUNTRIES (ACC)" – NENAMAT	<i>Specific Support Action Project (SSA)</i> în cadrul Programului " <i>Integrating and Strengthening the European Research Area</i> ", <i>Prioritatea 3, Identifier: FP6-2003-ACC-SSA-General</i> Contract nr.: INCO-CT-2003-510363	<b>20.520</b> (valoarea contractată INCDFT-IFT Iași)	Perioada: 2004-2006 2004: <b>7.520 EUR</b> 2005: <b>9.000 EUR</b> 2006: <b>4.000 EUR</b>
"IMPROVING THE UNDERSTANDING OF THE IMPACT OF NANOPARTICLES ON HUMAN HEALTH AND THE ENVIRONMENT" – IMPART	" <i>Coordination Action</i> " (CA) în cadrul <i>Priorității 3 "Nanotechnologies and Nanosciences"</i> Contract nr.: NMP4-CT-2005-013968	<b>11.770</b> (valoarea contractată INCDFT-IFT Iași)	Perioada: 2005-2008 2005: <b>1.000 EUR</b> 2006: <b>3.090 EUR</b> 2007: <b>3.500 EUR</b> 2008: <b>4.180 EUR</b>
"SPIN CURRENT INDUCED ULTRAFast SWITCHING" – SPINSWITCH	<i>Marie Curie Research Training Network</i> Contract no.: MRTN-CT-2006-035327	<b>2.831.277</b> (valoarea totală a proiectului)	Perioada: 2006-2010 <i>Consumat:</i> 2006: <b>800 EUR</b> 2007: <b>8.500 EUR</b> <i>Estimat:</i> 2008: 27.500 EUR 2009: 27.500 EUR 2010: 30.000 EUR
<b>Alte contracte internaționale finanțate din fonduri publice</b>			
	Contact AIEA Viena	<b>4.355,2</b>	2003: 2.001,4 EUR 2004: 1.658,8 EUR 2006: 695 EUR
	Contract Naval Research Laboratory, SUA	<b>10.424</b>	2007: 10.424 EUR
<b>Total proiecte - 6</b>		<b>Valoare 2003 -2007</b>	<b>201.260,2 Euro</b>



### ANEXA 7.3

#### Numărul și valoarea contractelor de cercetare naționale finanțate din fonduri publice, defalcate pe ani

Tipuri de Programe	Număr total contracte	Număr contracte / Valoare contracte (lei), defalcate pe ani				
	Valoare totală (lei)	2003	2004	2005	2006	2007
<b>PNCDI I</b>	<b>40</b>	29	28	21	10	0
	<b>3.257.445</b>	732.579	1.092.476	975.790	456.600	0
<b>PLAN SECTORIAL</b>	<b>2</b>	0	0	2	0	0
	<b>50.000</b>	0	0	50.000	0	0
<b>CEEX</b>	<b>37</b>	0	0	14	33	37
	<b>11.942.104</b>	0	0	1.845.986	4.318.626	5.777.492
<b>Granturi</b>	<b>8</b>	1	3	4	5	5
	<b>544.884</b>	5.900	32.500	89.000	155.600	261.884
<b>PN II</b>	<b>5</b>	0	0	0	0	5
	<b>838.400</b>	0	0	0	0	838.400
<b>Programe Nucleu</b>	<b>2 / 21 teme</b>	1 / 12 teme	1 / 12 teme	1 / 12 teme	1 / 9 teme	1 / 9 teme
	<b>7.176.065</b>	602.949	749.200	875.100	1.800.000	3.148.816
<b>Total*</b>	<b>94</b>	<b>31</b>	<b>32</b>	<b>42</b>	<b>49</b>	<b>48</b>
	<b>23.808.898</b>	<b>1.341.428</b>	<b>1.874.176</b>	<b>3.835.876</b>	<b>6.730.826</b>	<b>10.026.592</b>

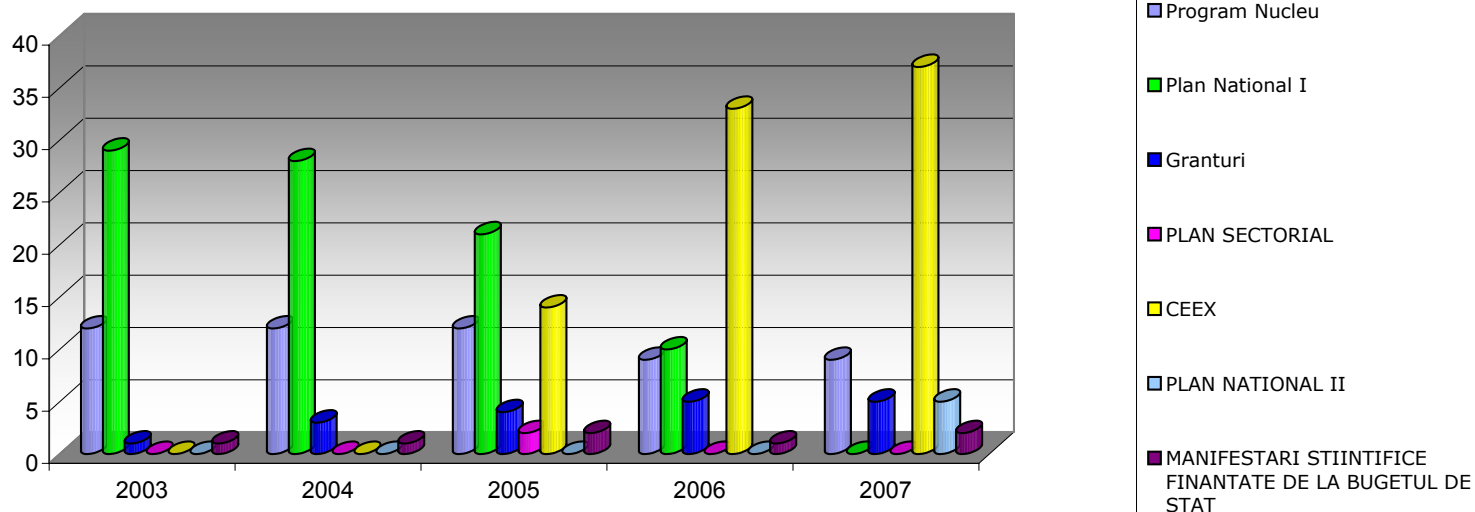
\* În defalcarea pe ani a numărului și valorilor contractelor de cercetare, prezentată în paginile următoare, apare numărul de 120 proiecte /contracte finanțate, din care:

- 92 proiecte de cercetare din PNCDI I și PN 2, Plan Sectorial, CEEX, Granturi
- 21 proiecte în cadrul a 2 Programe Nucleu
- 7 manifestări științifice (4 internaționale, 3 naționale) organizate de INCDFI-IFT Iași în perioada 2003 – 2007.

**NUMARUL CONTRACTELOR DE CERCETARE NATIONALE  
FINANTATE DIN FONDURI PUBLICE**

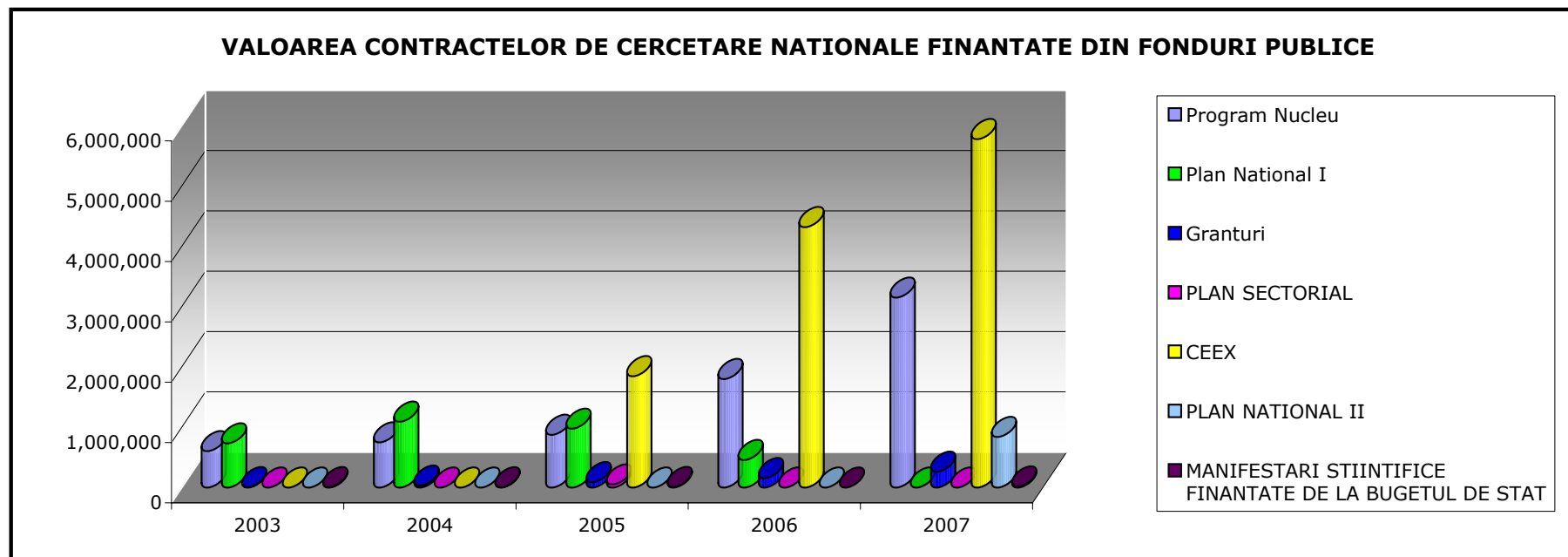
<b>Program</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
<b>Program Nucleu</b>	12	12	12	9	9
<b>Plan National I</b>	29	28	21	10	0
<b>Granturi</b>	1	3	4	5	5
<b>PLAN SECTORIAL</b>	0	0	2	0	0
<b>CEEX</b>	0	0	14	33	37
<b>PLAN NATIONAL II</b>	0	0	0	0	5
<b>MANIFESTARI STIINTIFICE FINANTATE DE LA BUGETUL DE STAT</b>	1	1	2	1	2
<b>Total proiecte pe ani</b>	<b>43</b>	<b>44</b>	<b>55</b>	<b>58</b>	<b>58</b>
<b>Total proiecte contractate in perioada raportata 2003-2005</b>	<b>120 PROIECTE</b>				

**NUMARUL CONTRACTELOR DE CERCETARE NATIONALA FINANTATE DIN FONDURI PUBLICE IN PERIOADA  
RAPORTATA 2003-2007**



**VALOAREA CONTRACTELOR DE CERCETARE NATIONALE  
FINANTATE DIN FONDURI PUBLICE**

<b>Program</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
<b>Program Nucleu</b>	602,949	749,200	875,100	1,800,000	3,148,816
<b>Plan National I</b>	732,579	1,092,476	975,790	456,600	0
<b>Granturi</b>	5,900	32,500	89,000	155,600	261,884
<b>PLAN SECTORIAL</b>	0	0	50,000	0	0
<b>CEEX</b>	0	0	1,845,986	4,318,626	5,777,492
<b>PLAN NATIONAL II</b>	0	0	0	0	838,400
<b>MANIFESTARI STIINTIFICE FINANTATE DE LA BUGETUL DE STAT</b>	5,000	4,500	8,400	0	17,000
<b>Total venituri pe ani</b>	<b>1,346,428</b>	<b>1,878,676</b>	<b>3,844,276</b>	<b>6,730,826</b>	<b>10,043,592</b>
<b>VALOAREA CONTRACTELOR DE CERCETARE NATIONALE FINANTATE DIN FONDURI PUBLICE IN PERIOADA 2003-2007</b>	<b>23,843,798</b>				



**7.3 NUMARUL SI VALOAREA CONTRACTELOR DE CERCETARE NATIONALE FINANTATE DIN FONDURI PUBLICE**

RON

<b>Nr. Crt</b>	<b>Tema</b>	<b>Total pe proiect</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
1	PN 03 - 31 01 01	<b>277,200</b>	86,000	57,200	134,000	0	0
2	PN 03 - 31 01 02	<b>197,100</b>	71,000	63,100	63,000	0	0
3	PN 03 - 31 01 03	<b>108,000</b>	38,000	40,000	30,000	0	0
4	PN 03 - 31 01 04	<b>213,500</b>	4,000	114,500	95,000	0	0
5	PN 03 - 31 01 05	<b>189,300</b>	38,800	65,400	85,100	0	0
6	PN 03 - 31 01 06	<b>186,100</b>	56,000	74,100	56,000	0	0
7	PN 03 - 31 01 07	<b>131,000</b>	51,000	30,000	50,000	0	0
8	PN 03 - 31 02 01	<b>231,200</b>	74,000	27,200	130,000	0	0
9	PN 03 - 31 02 02	<b>206,300</b>	59,000	87,300	60,000	0	0
10	PN 03 - 31 02 03	<b>244,149</b>	81,149	93,000	70,000	0	0
11	PN 03 - 31 02 04	<b>149,500</b>	35,000	54,500	60,000	0	0
12	PN 03 - 31 02 05	<b>93,900</b>	9,000	42,900	42,000	0	0
13	PN 06 38 01 01	<b>850,170</b>	0	0	0	280,000	570,170
14	PN 06 38 01 02	<b>673,646</b>	0	0	0	260,000	413,646
15	PN 06 38 01 03	<b>300,000</b>	0	0	0	150,000	150,000
16	PN 06 38 01 04	<b>200,000</b>	0	0	0	100,000	100,000
17	PN 06 38 02 01	<b>775,000</b>	0	0	0	290,000	485,000
18	PN 06 38 02 02	<b>1,000,000</b>	0	0	0	290,000	710,000
19	PN 06 38 02 03	<b>870,000</b>	0	0	0	290,000	580,000
20	PN 06 38 02 04	<b>160,000</b>	0	0	0	80,000	80,000
21	PN 06 38 02 05	<b>120,000</b>	0	0	0	60,000	60,000
<b>Total Program Nucleu</b>		<b>7,176,065</b>	<b>602,949</b>	<b>749,200</b>	<b>875,100</b>	<b>1,800,000</b>	<b>3,148,816</b>
		<b>21 PROIECTE</b>	<b>12 Proiecte</b>	<b>12 Proiecte</b>	<b>12 Proiecte</b>	<b>9 Proiecte</b>	<b>9 Proiecte</b>

### 7.3 NUMARUL SI VALOAREA CONTRACTELOR DE CERCETARE NATIONALE FINANTATE DIN FONDURI PUBLICE

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Nr. Crt	Tema	Total pe proiect	2003	2004	2005	2006	2007
1	CERES 1	<b>158,640</b>	54,000	104,640	0	0	0
2	CERES 2	<b>113,420</b>	72,000	41,420	0	0	0
3	CERES 3	<b>50,000</b>	50,000	0	0	0	0
4	CERES 4	<b>100,305</b>	30,000	70,305	0	0	0
5	CERES 5	<b>83,960</b>	36,000	47,960	0	0	0
6	CERES 37	<b>6,800</b>	6,800	0	0	0	0
7	CERES 47	<b>60,063</b>	35,100	24,963	0	0	0
8	CERES 50	<b>39,110</b>	21,178	17,932	0	0	0
9	CERES 57	<b>134,373</b>	91,601	42,772	0	0	0
10	CERES 3-60/2003	<b>240,630</b>	15,000	70,850	154,780	0	0
11	CERES 3-2/2003	<b>85,940</b>	14,000	52,320	19,620	0	0
12	CERES 3-53/2003	<b>166,700</b>	25,000	54,500	87,200	0	0
13	CERES 3-4/2003	<b>145,800</b>	15,000	43,600	87,200	0	0
14	CERES 3-3/2003	<b>101,200</b>	14,000	43,600	43,600	0	0
15	Ceres 4-65/2004	<b>105,000</b>	0	17,000	34,000	54,000	0
16	Ceres 4-207/2004	<b>100,000</b>	0	16,000	33,000	51,000	0
17	Ceres 4-64/2004	<b>100,000</b>	0	16,000	33,000	51,000	0
18	Ceres 4-234/2004	<b>100,000</b>	0	20,000	15,000	65,000	0
19	Ceres 4-256/2004	<b>100,000</b>	0	20,000	14,000	66,000	0
20	Ceres 4-253/2004	<b>100,000</b>	0	20,000	14,000	66,000	0
21	Ceres 4-237/2004	<b>100,000</b>	0	20,000	15,000	65,000	0
22	CERES SUBC. 4/2004 BAD	<b>18,000</b>	0	0	8,000	10,000	0
23	MATHNANTECH 85 b'	<b>6,924</b>	3,000	3,924	0	0	0
24	MATHNANTECH 177 (303)	<b>160,395</b>	34,500	65,400	60,495	0	0
25	MATHNANTECH 159(302)	<b>162,600</b>	10,000	43,600	109,000	0	0
26	RELANSIN 599	<b>7,800</b>	7,800	0	0	0	0
27	RELANSIN 620	<b>5,000</b>	5,000	0	0	0	0
28	RELANSIN 1781	<b>7,500</b>	7,500	0	0	0	0

### 7.3 NUMARUL SI VALOAREA CONTRACTELOR DE CERCETARE NATIONALE FINANTATE DIN FONDURI PUBLICE

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Nr. Crt	Tema	Total pe proiect	2003	2004	2005	2006	2007
29	RELANSIN 6677	10,450	5,000	5,450	0	0	0
30	RELANSIN 107	5,000	5,000	0	0	0	0
31	RELANSIN CE 1024	126,300	50,000	76,300	0	0	0
32	Relansin 1747/2003	34,880	0	23,980	10,900	0	0
33	Relansin subcontract C 2040/2004 S 1174/2004 Lozovan	15,000	0	0	5,000	10,000	0
34	Calist 2148	20,000	20,000	0	0	0	0
35	Calist 4122	69,950	10,000	32,155	27,795	0	0
36	INVENT 21	3,000	3,000	0	0	0	0
37	INVENT 43	98,805	72,100	26,705	0	0	0
38	INVENT 85	119,000	10,000	32,700	76,300	0	0
39	INVENT 84	75,400	10,000	21,800	43,600	0	0
40	INFRAS 220/2004	119,500	0	16,600	84,300	18,600	0
<b>Total Plan National I</b>		<b>3,257,445</b>	<b>732,579</b>	<b>1,092,476</b>	<b>975,790</b>	<b>456,600</b>	<b>0</b>
		<b>40 PROIECTE</b>	<b>29 Proiecte</b>	<b>28 proiecte</b>	<b>21 Proiecte</b>	<b>10 Proiecte</b>	<b>0</b>
1	GRANT 1433	29,400	5,900	9,500	14,000	0	0
2	GRANT 982	60,000	0	15,000	25,000	20,000	0
3	GRANT 1509	30,600	0	8,000	10,000	12,600	0
4	GRANT 586	159,000	0	0	0	59,000	100,000
5	GRANT 706	100,000	0	0	0	0	100,000
6	GRANT SUBCONTRACT CONSORTIU 27693/2005 NANOCONS	124,000	0	0	40,000	44,000	40,000
7	GRANT SUBCONTRACT CONSORTIU 14495/2005 CONSMEMF	36,000	0	0	0	20,000	16,000
8	GRANT MOBILITATI 77/2007	5,884	0	0	0	0	5,884
<b>Total Granturi</b>		<b>544,884</b>	<b>5,900</b>	<b>32,500</b>	<b>89,000</b>	<b>155,600</b>	<b>261,884</b>
		<b>8 PROIECTE</b>	<b>1 Proiect</b>	<b>3 proiecte</b>	<b>4 Proiecte</b>	<b>5 Proiecte</b>	<b>5 Proiecte</b>
1	Contract 76/15.07.2005	10,000	0	0	10,000	0	0
2	Subcontract 401/2005 - Contract 7/2004	40,000	0	0	40,000	0	0
<b>Total PLAN SECTORIAL</b>		<b>50,000</b>	<b>0</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>0</b>
		<b>2 PROIECTE</b>	<b>0</b>	<b>0</b>	<b>2 Proiecte</b>	<b>0</b>	<b>0</b>

### 7.3 NUMARUL SI VALOAREA CONTRACTELOR DE CERCETARE NATIONALE FINANTATE DIN FONDURI PUBLICE

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Nr. Crt	Tema	Total pe proiect	2003	2004	2005	2006	2007
1	CEEX - Modul 4 - 63/09.09.2005	<b>780,000</b>	0	0	430,000	300,000	50,000
2	CEEX - ESMMN - Cex 05-D11-41/06.12.2005	<b>905,000</b>	0	0	275,000	322,000	308,000
3	CEEX -NANO-AGMAM - 14/06.10.2005	<b>948,000</b>	0	0	285,500	397,500	265,000
4	CEEX - MAGSAT - 34/06.10.2005	<b>1,075,000</b>	0	0	313,000	547,000	215,000
5	CEEX - Subcont. NANO4M - 4049/2005	<b>227,000</b>	0	0	95,000	89,000	43,000
6	CEEX - SPINCOMEL C 35/2005 ; S 35-2/2005	<b>188,000</b>	0	0	0	88,000	100,000
7	CEEX - NEWSOLPEN - C 602/2005 - S 15452/2005	<b>130,000</b>	0	0	0	100,000	30,000
8	CEEX - Subcont. COMCRIOMAT - C - 43/2005; S 11/2005	<b>135,000</b>	0	0	25,000	30,000	80,000
9	CEEX - Subcont. NANOEND - C - 33/2005; S -161/2005	<b>307,000</b>	0	0	50,000	165,000	92,000
10	CEEX - Subcont. NANOMAG - C -19/2005; S 19-2/2005	<b>315,000</b>	0	0	30,000	192,000	93,000
11	CEEX - Subcont. EXCEMAG - C -20/2005 S 20-2/2005	<b>270,000</b>	0	0	150,000	40,000	80,000
12	CEEX - Subcont. RO-NANOMED C-42/2005; S 42-13/2005	<b>35,000</b>	0	0	7,000	14,000	14,000
13	CEEX - Subcont. SMARTEX C 8/2005 S 2/2005	<b>107,500</b>	0	0	5,000	55,000	47,500
14	CEEX - SINERMAT - 6110/2005	<b>1,235,000</b>	0	0	140,000	485,000	610,000
15	CEEX - IDEABIPOL (Bad) S 10/2005	<b>69,000</b>	0	0	15,000	30,000	24,000
16	CEEX - Subcont. Neda - C 9 CEEX I03/2005 - S 9/2005	<b>90,282</b>	0	0	25,486	35,046	29,750
17	CEEX - BARTER - C 7/2005	<b>64,000</b>	0	0	0	34,000	30,000
18	CEEX 2006 -BIOSNANOMAG - 61/2006	<b>446,980</b>	0	0	0	279,000	167,980
19	CEEX 2006 -EDDY - C 70/2006; S 1570/2006	<b>159,000</b>	0	0	0	23,000	136,000
20	CEEX 2006 - EMCSI - Loz	<b>38,000</b>	0	0	0	0	38,000
21	CEEX 2006 - FILTISOFTUS -C 78/2006 S 3649B/2006	<b>133,505</b>	0	0	0	23,063	110,442
22	CEEX 2006 - HyProd-PEM EL - C 703/2006 - S 10730/2006	<b>61,850</b>	0	0	0	30,000	31,850
23	CEEX 2006 - MASTRICH - C 73 /2006 - S 73-S9/2006	<b>70,000</b>	0	0	0	30,000	40,000
24	CEEX 2006 - MATDESEV - C 193/2006; S 193-2/2006	<b>24,700</b>	0	0	0	0	24,700
25	CEEX 2006 - NANOSEMIMAGNET	<b>80,000</b>	0	0	0	0	80,000
26	CEEX 2006 - NMSNSGV - 2-Cex 06-11-51/2006	<b>851,000</b>	0	0	0	121,000	730,000
27	CEEX 2006 - ROLIGHT - 49/2006	<b>613,430</b>	0	0	0	97,650	515,780
28	CEEX 2006 - SMMA - 2-Cex 06-11-58/2006	<b>699,400</b>	0	0	0	198,000	501,400

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Nr. Crt	Tema	Total pe proiect	2003	2004	2005	2006	2007
29	CEEX 2006 - SYMTEX - C 205/2006 S 205-3/2006	60,000	0	0	0	0	60,000
30	CEEX 2006 - MCIP-MPMN - 76/2006	582,250	0	0	0	131,250	451,000
31	CEEX 2006 - PROTHERM - C 171/2006 S 171-2/2006	78,600	0	0	0	19,800	58,800
32	CEEX 2006 - TAMF - 92/2006	212,870	0	0	0	72,160	140,710
33	CEEX 2006 - EPTM - 84/2006	442,370	0	0	0	189,670	252,700
34	CEEX 2006 - PRECASS - C 89/2006 S 89-4/2006	125,000	0	0	0	75,000	50,000
35	CEEX 2006 - CMR-TEM C 94/2006 S 94-3/2006	88,367	0	0	0	43,487	44,880
36	CEEX 2006 - NANOCOFARM - C 108/2006 S 2/2006	144,000	0	0	0	22,000	122,000
37	CEEX 2006 - TRAGUS - S 4169P/2006	150,000	0	0	0	40,000	110,000
<b>Total CEEX</b>		<b>11,942,104</b>	<b>0</b>	<b>0</b>	<b>1,845,986</b>	<b>4,318,626</b>	<b>5,777,492</b>
		<b>37 PROIECTE</b>	<b>0</b>	<b>0</b>	<b>14 Proiecte</b>	<b>33 Proiecte</b>	<b>37 Proiecte</b>
1	PN II - PC-MAN	540,000	0	0	0	0	540,000
2	PN II - NANOBIODET	102,000	0	0	0	0	102,000
3	PN II - SCEN	30,000	0	0	0	0	30,000
4	PN II - MAGSEPDETOX	120,000	0	0	0	0	120,000
5	PN II - MODIS	46,400	0	0	0	0	46,400
<b>Total PLAN NATIONAL II</b>		<b>838,400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>838,400</b>
		<b>5 PROIECTE</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5 Proiecte</b>
1	CONFERINTA ANMM	22,900	5,000	4,500	4,400	0	9,000
2	CONFERINTA EDNANO 86 M/2007	8,000	0	0	0	0	8,000
3	CONFERINTA POLITICA IND. A ROMANIEI	4,000	0	0	4,000	0	0
		<b>34,900</b>	<b>5,000</b>	<b>4,500</b>	<b>8,400</b>	<b>0</b>	<b>17,000</b>
<b>MANIFESTARI STIINTIFICE FINANTATE DE LA BUGETUL DE STAT</b>		<b>7 PROIECTE</b>	<b>1 Proiect</b>	<b>1 Proiect</b>	<b>2 Proiect</b>	<b>1 Proiect</b>	<b>2 Proiect</b>
<b>Total Buget</b>		<b>23,843,798</b>	<b>1,346,428</b>	<b>1,878,676</b>	<b>3,844,276</b>	<b>6,730,826</b>	<b>10,043,592</b>
<b>TOTAL PROIECTE</b>		<b>120 PROIECTE</b>	<b>43 Proiecte</b>	<b>44 Proiecte</b>	<b>55 Proiecte</b>	<b>58 Proiecte</b>	<b>58 Proiecte</b>