



RAPORT ANUAL DE ACTIVITATE

AL

INSTITUTULUI NAȚIONAL DE CERCETARE-DEZVOLTARE

PENTRU FIZICA LASERILOR, PLASMA ȘI RADIAȚIE

INCDFLPR

2015

P.O. Box: MG-39, RO 077125 București ROMÂNIA

Tel./Fax: +(40) 21-457-4550

Fax: +(40) 21 457-4243

Email: office@inflpr.ro

traian.dascalu@inflpr.ro

director.stiintific@inflpr.ro

<http://www.inflpr.ro>



1. DATELE DE IDENTIFICARE ALE INSTITUTULUI

1.1. Denumirea

Institutul Național de Cercetare Dezvoltare pentru Fizica Laserilor Plasmei și Radiației

1.2. Actul de înființare cu modificările ulterioare

INFLPR a devenit institut național de cercetare-dezvoltare în anul 1996 prin HG 1310/1996 și reacreditat prin HG 1581/2004. Prin H.G. 1310/1996 s-a hotărât că institutul să aibă ca filială cu personalitate juridică Institutul de Științe Spațiale-ISS.

1.3. Numărul de înregistrare în registrul potențialilor contractori

1877

1.4. Adresa

Strada Atomistilor Nr. 409, Măgurele, Județul Ilfov, România, RO077125

1.5. Telefon, fax, pagina web, e-mail

Tel./Fax: +(40) 21-457-44.89 / 44.71

Fax: +(40) 21-457-42.43

Email: ion.morjan@inflpr.ro

Web: <http://www.inflpr.ro>

2. SCURTA PREZENTARE A INSTITUTULUI

2.1 Istoric

Institutul Național de Fizica Laserilor, Plasmei și Radiației este un institut de cercetare de nivel național stabilit prin hotărâre a Guvernului României în anul 1977.

Misiunea institutului constă în a conduce cercetări fundamentale și aplicative la nivel național și internațional în domeniile fotonicii, plasmei, acceleratoarelor de electroni. Institutul a fost reorganizat în 1996 când Institutul de Științe Spațiale (ISS) a devenit filiala a INFLPR în conformitate cu Hotărârea Guvernului României Nr. 1310/1996, ca unitate cu personalitate juridică, rezultat în urmă reorganizării și unificării IFTAR și IGSS.

Continuând o tradiție de peste 40 de ani în domeniul cercetărilor de fizică, Institutul Național de Fizica Laserilor, Plasmei și Radiației (INFLPR) are ca obiect principal de activitate efectuarea de cercetări fundamentale, aplicative și dezvoltare tehnologică în domeniile: fizica laserilor, electronică cuantică a solidului, fizica plasmei, fizica fasciculelor de electroni precum și fizica spațiului cosmic.

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Misiunea institutului constă în a conduce cercetări fundamentale și aplicative la nivel național și internațional în domeniile fotonicii, plasmei, acceleratoarelor de electroni. Institutul a fost reorganizat în 1996 când Institutul de Științe Spațiale (ISS) a devenit filiala a



- ✓ Fizica radiațiilor: fizica acceleratoarelor de electroni, fizica interacțiunii particulelor încărcate cu ținte biologice, fizica radiațiilor X, fizica accelerării particulelor în câmp laser, fizica radiațiilor THz.
- ✓ Științele nano: nanofotonica, nanometrologie, puncte cuantice, fotochimie laser, fizica suprafețelor și plasmonica.
- ✓ Fizica spațială: fizica radiațiilor cosmice, astrofizica nucleară și particule, plasma spațială și magnetometrie, cosmologie, fizica și astrofizica teoretică, fizica matematică, gravitație și microgravitație.

Cercetare aplicativă

- ✓ Tehnologii laser avansate: materiale biocompatibile, nanoplicaturi pentru medicina, noi tipuri de materiale pentru celule solare, senzori produși prin tehnici fotonice, micro-nanoprelucrări cu laser, nanometrologie.
- ✓ Cercetare aplicativă în plasmă fierbinte: Sisteme plasmă-catalitice pentru distrugerea poluanților organici din aer și apă, aliere superficiale, tratamente termochimice în plasmă.
- ✓ Aplicații ale plasmelor de temperatură joasă: materiale nanostructurate și compozite, suprafețe sterile în plasmă, suprafețe biocompatibile, funcționalizarea suprafețelor pentru cultura celulelor, imobilizarea proteinelor, structuri quantum-well bazate pe DLC.
- ✓ Nanotehnologii: metamateriale, senzori SAW, fluide magnetice
- ✓ Radiații și particule accelerate: Tomografia de transmisie de raze X pentru măsurători dimensionale, Micro-tomografie fluorescență de raze X, iradiere complexe dedicate aplicațiilor în medicina, biologie, conservarea și protecția mediului;
- ✓ Sisteme avansate de comunicații: tehnologii GRID, optimizarea transferului de date.

b. domenii secundare de cercetare

Dezvoltare tehnologică

- ✓ Realizare modele experimentale și prototipuri: detectori avansați de agenți chimici;
- ✓ Elaborare tehnologii: straturi de biosticle obținute prin tehnologii laser pentru componentele protezelor ortopedice, tehnologii de tratare a materialelor bazate pe iradierea cu electroni, tehnologie de depunere beriliu, tehnologii de depunere W.
- ✓ Standardizare în domeniul aparaturii spațiale
- ✓ Acreditare / notificare / autorizare / certificare laboratoare:
 - Acreditare/certificare metrologie laser: metrologia radiației optice coerente; metrologia radiației optice necoerente; metrologia sistemelor de comunicații pe fibră optică; măsurarea vibrațiilor folosind sisteme laser;
 - Acreditare laborator măsurare radiații secundare STARDOR
 - Acreditare laborator testare a opticii de mare putere ISOTEST



c. servicii/microproducție

Servicii de specialitate:

- ✓ Furnizarea de fascicule de particule accelerate (electroni).
- ✓ Furnizarea de fascicule laser de mare putere (17TW).
- ✓ Tratamente de produse și materiale prin iradiere cu electroni.
- ✓ Metrologie legală în domeniul fasciculelor laser.
- ✓ Microtomografie de raze X
- ✓ Pregătire și specializare în domeniul laseri, plasma.
- ✓ Design și execuție aparate laser.

Microproducție

- ✓ Durificarea suprafețelor în plasma
- ✓ Tratamente de nitrurare ionică și PASK (Plasma AntiStiKing)
- ✓ Acoperiri speciale cu W și Be folosind tehnologii proprii pentru instalațiile de fuziune nucleară tokamak (JET – Joint European Torus), UK și ASDEX Upgrade, Germania

Alte servicii

- ✓ Elaborarea de studii, programe și strategii de cercetare-dezvoltare.

2.5. Modificări strategice în organizarea și funcționarea institutuluiⁱ

În anul 2015 nu au fost înregistrate modificări strategice în organizarea și funcționarea institutului.

3. STRUCTURA DE CONDUCERE A INSTITUTULUI

3.1. Consiliul de administrație

Consiliul de administrație este format din 7 membri: Director general (Președinte al CA), Președinte al Consiliului Științific, Specialist INFLPR, Reprezentant MECS, Reprezentant ANCSI, Specialist Inst. Cantacuzino, Reprezentant Ministrul Finanțelor Publice, Reprezentant Ministrul Muncii Familiei Protecției Sociale și Persoanelor Vârstnice

3.2. Directorul general

Dr. Ing. Ion MORJAN

3.3. Consiliul științific

Consiliul științific este format din 25 membri.

3.4. Comitetul director

Comitetul director este format din 11 membri:



4. SITUAȚIAⁱⁱ ECONOMICO-FINANCIARĂ A INSTITUTULUI

4.1. Patrimoniul stabilit pe baza situației financiare anuale la 31 Decembrieⁱⁱⁱ

Conform situației financiare anuale preliminate, patrimoniul institutului este în valoare totală de 110.441.734 mii lei, în scădere cu 1.05% față de patrimoniul din anul 2014, ca urmare a amortizării imobilizărilor corporale.

INFLPR

	2015 (lei)	2014 (lei)
ACTIVE IMOBILIZATE	84.817.380	94.281.299
Imobilizări necorporale	422.237	422.237,00
Imobilizări corporale	84.395.143	93.859.062
ACTIVE CIRCULANTE	12.864.106	10.126.112
Stocuri	368.407	25.000,00
Creanțe	3.724.989	7.352.229
Casa și conturi curente la bănci	8.770.710	2.748.883
TOTAL PATRIMONIUL	97.681.486	104.407.411

ISS

	2015 (lei)	2014 (lei)
ACTIVE IMOBILIZATE	8.998.665	8.020.376
Imobilizări necorporale	43.405	28.901
Imobilizări corporale	8.954.331	7.991.475
Imobilizări financiare	928	0
ACTIVE CIRCULANTE	3.761.584	4.128.393
Stocuri	169.544	338.034,00
Creanțe	758.504	639.378,00
Casa și conturi curente la bănci	2.833.536	3.150.981,00
TOTAL PATRIMONIUL	12.760.248	12.148.769

4.2. Venituri totale, din care:

Veniturile totale ale institutului pentru anul 2015 au fost în valoare de 72.289.997 lei. Cheltuielile totale au fost în valoare de 72.267.607 lei, iar profitul brut realizat de institut a fost în valoare de 22.390 lei. Deși veniturile totale ale anului 2015 au fost mai mici decât veniturile totale ale anului 2014 cu 8%, profitul brut realizat în anul 2015 a fost mai mare față de valoarea profitului brut realizat în anul 2014.



La data de 31.12.2015 institutul NU inregistrează arierate, datoriile institutului reprezintă datorii curente.

Componenta veniturilor, cheltuielilor și profitului brut este prezentată în tabelul următor:

INFLPR

	2015 (lei)	2014 (lei)
Venituri totale, din care:	56.108.766	60.727.956
Venituri realizate prin contracte de cercetare-dezvoltare naționale finanțate din fonduri publice, din care:	43.846.777	49.921.237,00
Venituri realizate prin contracte de cercetare-dezvoltare naționale finanțate de la bugetul de stat	41.711.898	47.799.206,59
Venituri realizate prin contracte de cercetare-dezvoltare internaționale finanțate din fonduri publice	2.134.879	1.980.292,95
Venituri realizate din activități economice (servicii, microproducție, exploatarea drepturilor de proprietatea intelectuală)	72.437	141.737
Cheltuieli totale	56.095.855	60.716.382
Profit brut	12.911	11.574

ISS

	2015 (lei)	2014 (lei)
Venituri totale , din care:	16.181.231	17.919.887
Venituri realizate prin contracte de cercetare-dezvoltare naționale finanțate din fonduri publice, din care:	14.970.247	16.656.650
Venituri realizate prin contracte de cercetare-dezvoltare naționale finanțate de la bugetul de stat	13.041.655,68	14.403.958,19
Venituri realizate prin contracte de cercetare-dezvoltare internaționale finanțate din fonduri publice	1.928.591,32	2.230.571,81
Venituri realizate din activități economice (servicii, microproducție, exploatarea drepturilor de proprietatea intelectuală)	16.129	22.120,00
Cheltuieli totale	16.171.752	17.964.506
Profit brut	9.479	-44.619

**Venituri totale INFLPR si ISS**

	2015 (lei)	2014 (lei)
Venituri totale , din care:	72.289.997	78.647.843
Venituri realizate prin contracte de cercetare-dezvoltare naționale finanțate din fonduri publice, din care:	58.817.024	66.577.887
Venituri realizate prin contracte de cercetare-dezvoltare naționale finanțate de la bugetul de stat	54.753.553,68	62.203.164,78
Venituri realizate prin contracte de cercetare-dezvoltare internaționale finanțate din fonduri publice	4.063.470,32	4.210.864,76
Venituri realizate din activități economice (servicii, microproducție, exploatarea drepturilor de proprietate intelectuală)	88.566	163.857
Cheltuieli totale	72.267.607	78.680.888
Profit brut	22.390	-33.045

4.3. Politicile economice și sociale implementate (costuri/efecte)

Având ca obiectiv principal optimizarea constituirii și utilizării resurselor economico-financiare, respectiv maximizarea valorii institutului, dezvoltarea durabilă și creșterea performanțelor, INFLPR a continuat în anul 2015 implementarea politicilor economice și sociale începute în anii precedenți:

- Creșterea și diversificarea activității de cercetare dezvoltare materializată prin evoluția mărimii și structurii cifrei de afaceri;
- Creșterea ponderii veniturilor obținute din fonduri internaționale de cercetare;
- Modernizarea și diversificarea bazei materiale de cercetare—dezvoltare reflectată prin creșterea gradului de reînnoire;
- Valorificarea rezultatelor cercetării și introducerea acestora în economie prin transfer tehnologic;
- Acordarea, conform CCM și a posibilităților financiare, a tichetelor de masă;



4.8. Evoluția performanței economice

Evoluția indicatorilor economici pentru perioada 2014-2015 este prezentată în tabelul următor:

INFLPR

Indicator	Sume(lei)	
	2015	2014
Total active Imobilizate	84.817.380	94.281.299,00
Total active circulante	12.864.106	10.126.112,00
TOTAL PATRIMONIUL	97.681.486	104.407.411,00
Venituri totale	56.108.766	60.727.956
Cheltuieli totale	56.095.855	60.716.382
Profit brut	12.911	11.574

ISS

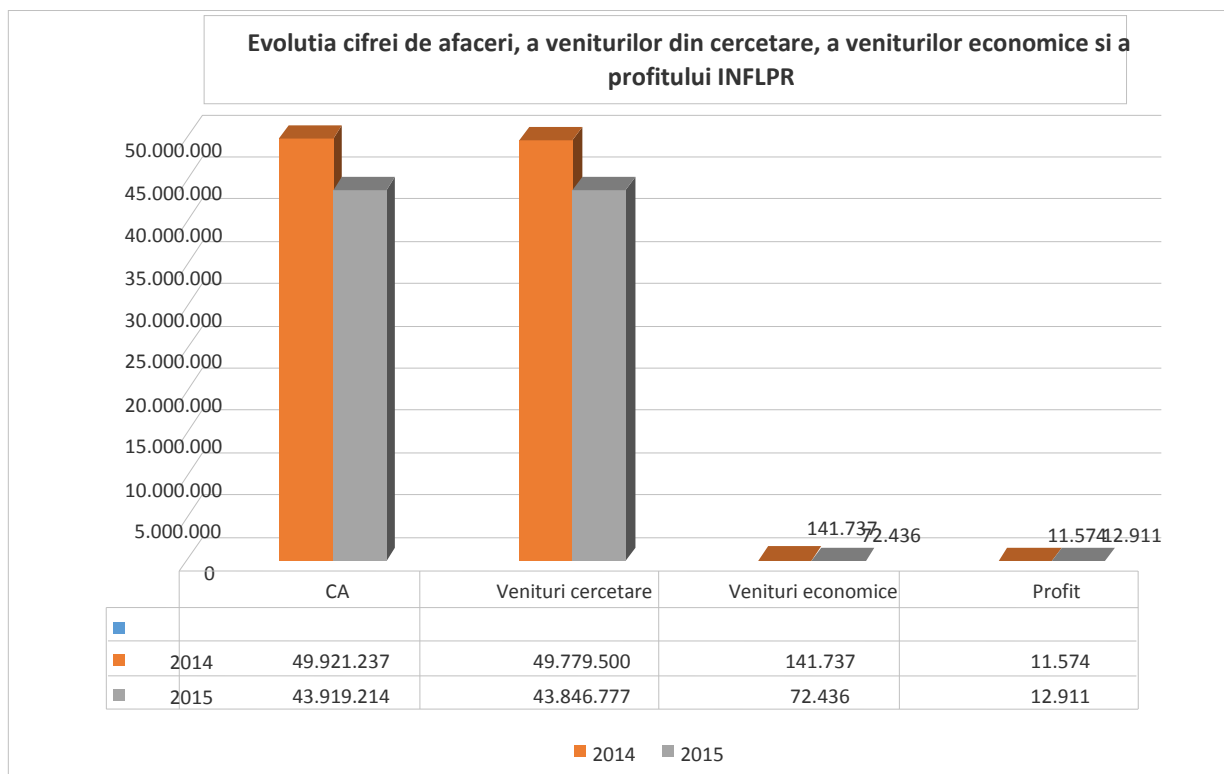
Indicator	Sume(lei)	
	2015	2014
Total active Imobilizate	8.998.665	8.020.376
Total active circulante	3.761.584	4.128.393
TOTAL PATRIMONIUL	12.760.248	12.148.769
Venituri totale	16.181.231	17.919.887
Cheltuieli totale	16.171.752	17.964.506
Profit brut	9.479	-44.619

INFLPR SI ISS

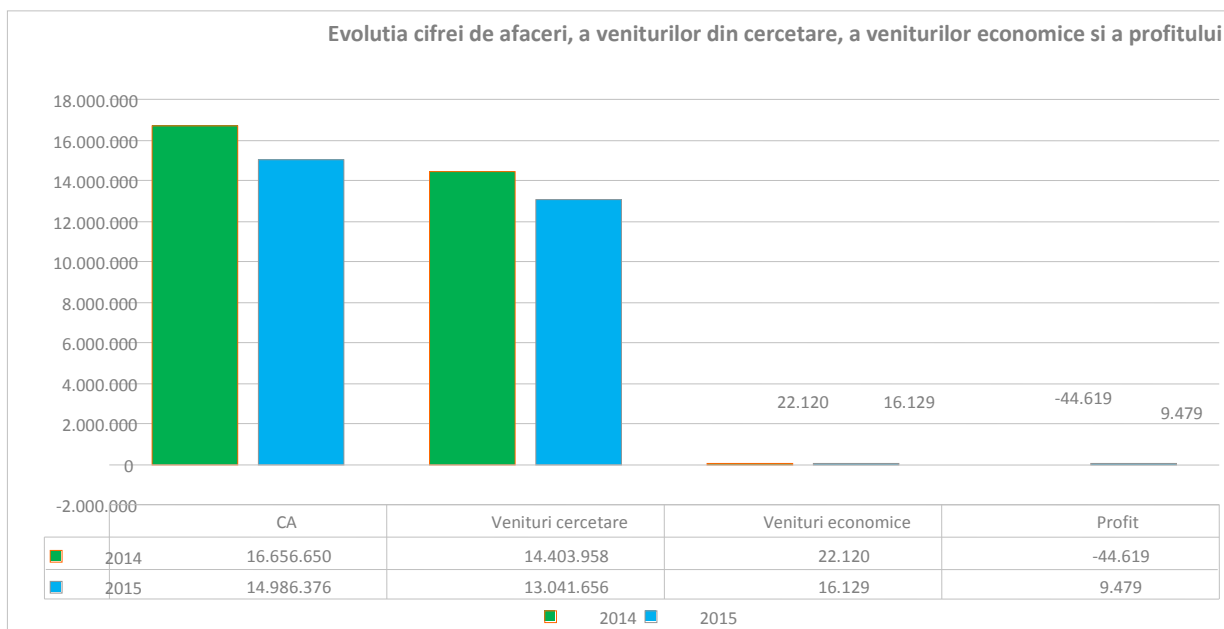
Indicator	Sume(lei)	
	2015	2014
Total active imobilizate	93.816.045	102.301.675
Total active circulante	16.625.690	22.274.881
TOTAL PATRIMONIUL	110.441.734	116.556.180
Venituri totale	72.289.997	78.647.843
Cheltuieli totale	72.267.607	78.680.888
Profit brut	22.390	-33.045



INFLPR



ISS





5. STRUCTURA RESURSEI UMANE DE CERCETARE-DEZVOLTARE

5.1. Total personal din care:

a. *personal de cercetare-dezvoltare atestat cu studii superioare*^{iv} 2015/2014

INFLPR: 252/253

ISS: 93/95

TOTAL: 345/348

b. *număr conducători de doctorat* 2015/2014

INFLPR: 9/9

ISS: 0/0

TOTAL: 9/9

c. *număr de doctori* 2015/2014

INFLPR: 236/230

ISS: 66/66

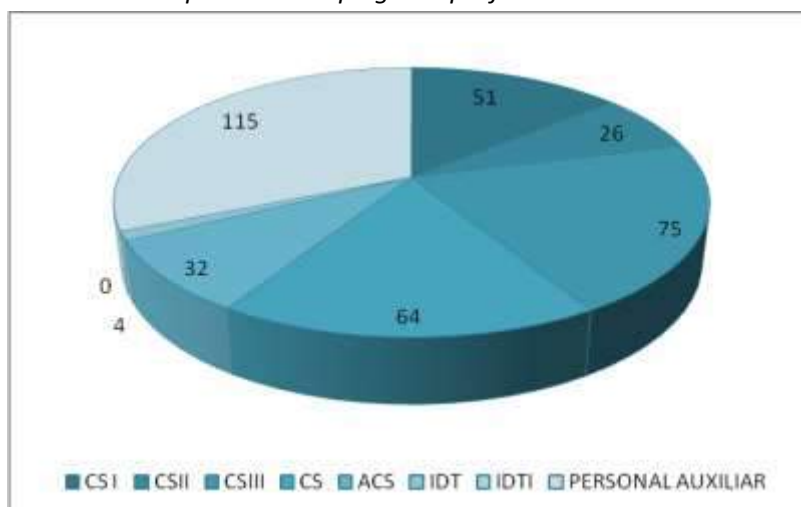
TOTAL: 302/296

d. *structura personalului pe grade profesionale și categorii de vârstă* 2015/2014

INFLPR 2015/2014

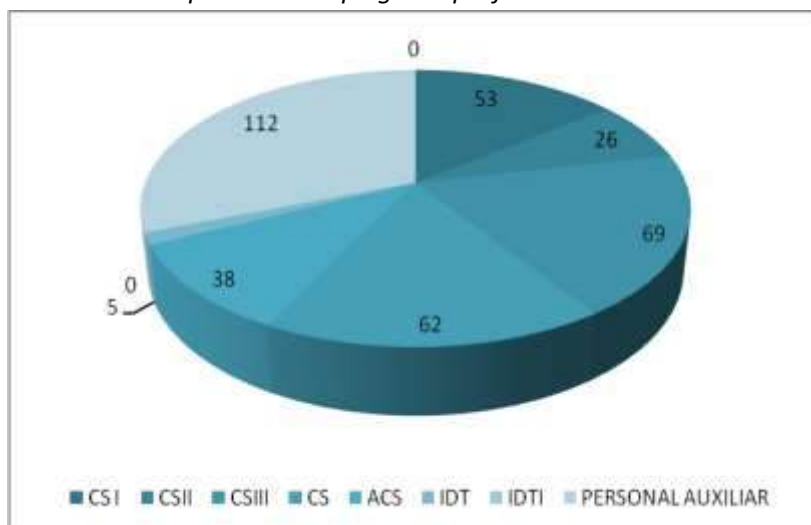
Total Personal INFLPR	Total pers.cercetare dezvolt.cu studii sup.	Personal cercetare dezvoltare atestat cu studii superioare				Personal cercetare dezvoltare cu studii superioare			Personal auxiliar
		CSI	CSII	CSIII	CS	ASC	IDT	IDTI	
367/365	252/253	51/53	26/26	75/69	64/62	32/38	4/5	0/0	115/112

Structura personalului pe grade profesionale INFLPR 2015





Structura personalului pe grade profesionale INFLPR 2014



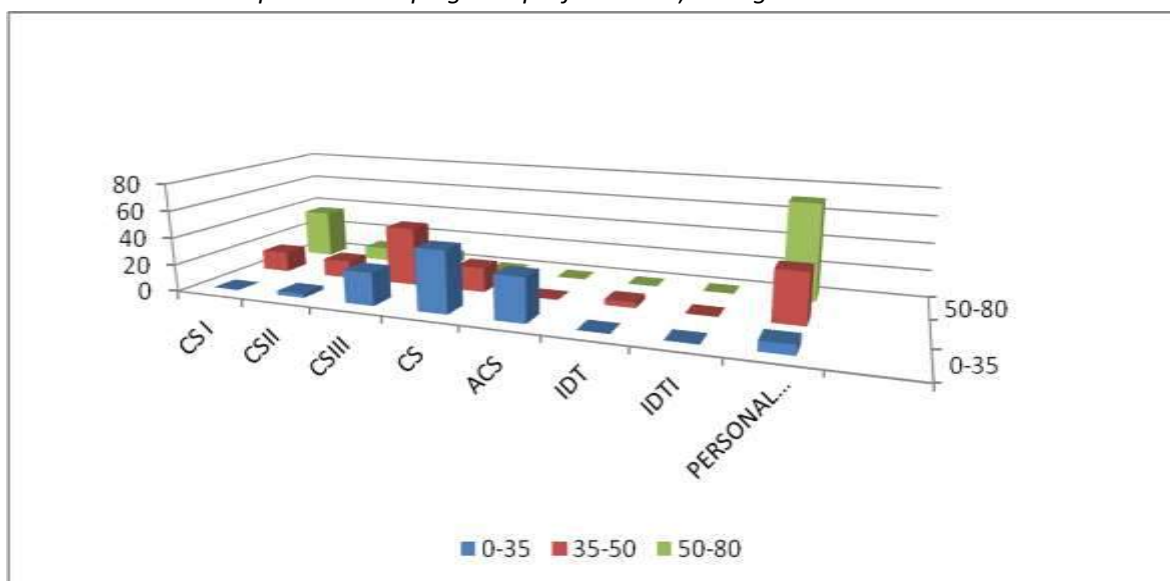
ISS 2015/2014

Total Personal ISS	Total pers.cercetare dezvolt.cu studii sup.	Personal cercetare dezvoltare atestat cu studii superioare				Personal cercetare dezvoltare cu studii superioare			Personal auxiliar
		CSI	CSII	CSIII	CS	ACS	IDT	IDTI	
125/129	93/95	12/13	5/5	41/42	19/19	15/15	0/0	1/1	32/34

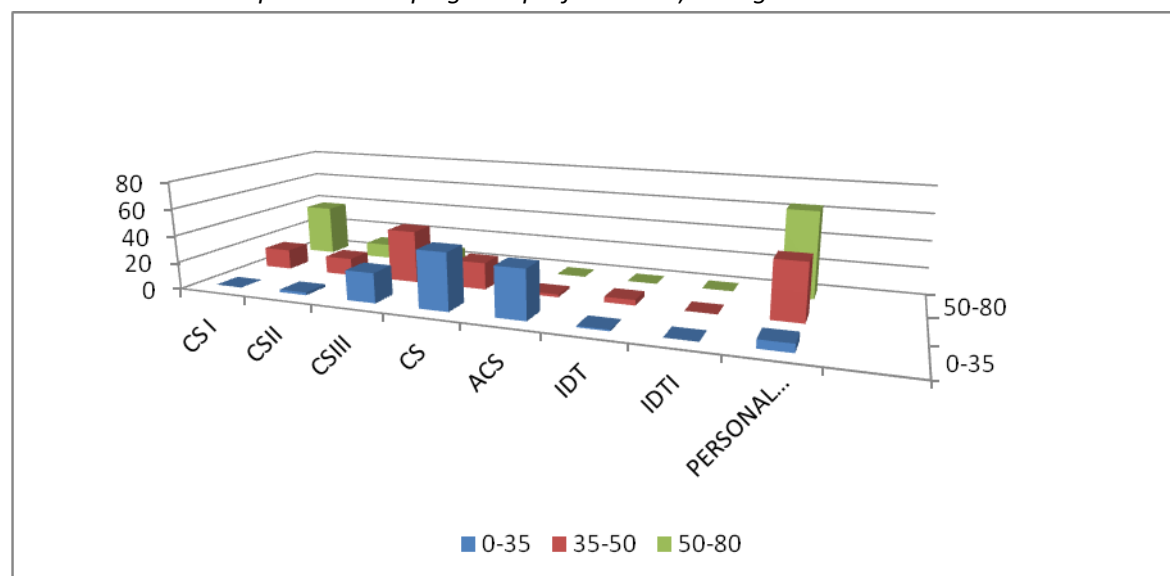
INFLPR 2015/2014

Personal cercetare-dezvoltare cu studii superioare								Personal auxiliar	
Interval vârstă	CSI	CSII	CSIII	CS	ACS	IDT	IDTI	Interval vârstă	
<35	0	3/2	24/22	45/42	32/36	0/1	0/0	<35	7/6
35-50	15/15	13/13	43/39	18/20	0/2	4/4	0/0	35-50	37/42
>50	36/38	10/11	8/8	1/0	0/0	0/0	0/0	>50	71/64
Total	51/53	26/26	75/69	64/62	32/38	4/5	0/0	Total	115/112
Total cercetare-dezvoltare: 252/253								Total auxiliar : 115/112	
TOTAL PERSONAL INFLPR: 367/365									

Structura personalului pe grade profesionale și categorii de vârstă INFLPR 2015



Structura personalului pe grade profesionale și categorii de vârstă INFLPR 2014





ISS 2015/2014

Personal cercetare-dezvoltare cu studii superioare								Personal auxiliar	
Interval vârstă	CSI	CSII	CSIII	CS	ACS	IDT	IDTI	Interval vârstă	
<35	0/0	1/1	6/9	10/10	12/12	0/0	0/0	<35	7/7
35-50	2/3	2/2	32/30	9/9	2/3	0/0	0/0	35-50	14/15
>50	10/10	2/2	3/3	0/0	0/1	0/0	1/1	>50	11/12
Total	12/13	5/5	41/42	19/19	15/15	0/0	1/1	Total	32/34
Total cercetare-dezvoltare: 93								Total auxiliar 32/34	
TOTAL PERSONAL ISS: 122/129									

5.2. Informații privind activitățile de perfecționare a resursei umane (personal implicat în procese de formare – stagii de pregătire, cursuri de perfecționare).

În anul 2015 au participat la cursurile de perfecționare, în străinătate și în țară 21 persoane:

Perfecționarea resursei umane - personal cercetare-dezvoltare

Nr. Crt.	Denumire curs	Tara/Oras	Nume si prenume/ Funcția	Nr.mandatului/ data
1.	Participare la Preparatory School si Winter College on Optics si la Winter College on Optics, Light: a Bridge between Earth and Space	Italia/Trieste	Ioana Ruxandra Ivascu-CS III	53/13.01.2015
2.	Participare la Winter College on Optics, Light: a Bridge between Earth and Space	Italia/Trieste	Jipa Florin-CS	175/3.02.2015
3.	Participare la Winter College on Optics, Light: a Bridge between Earth and Space	Italia/Trieste	Anghel Iulia-CS	176/3.02.2015
4.	Participare la Light: a Bridge between Earth and Space Winter College on Optics	Italia/Trieste	Ionel Laura-CS	177/3.02.2015
5.	Participare la școala Advance Course on Detection, Quantification and Modelling Strategies for Environment Engineered Nanomaterials.	Luxemburg/Belvaux	Simon Agota - ACS	276/23.02.2015
6.	Participare la școala COST intitulată „From Innovation to	Grecia/Salonic	Stoicu Alexandu – ACS	703/15.04.2015



	Entrepreneurship”			
7.	Participare la școala Seigman School on Laser, Ambreg, Germany.	Germania/Ambreg	Salamu Gabriela – CS	1087/09.06.2015
8.	Participare la ELI Summer School 2015.	Cehia/Praga	Banici Romeo - ACS	1364/17.07.2015
9.	Lectie invitată la 3rd Fast-Dot Summer School (Photonics Meets Biology).	Grecia/Creta	Dinca Valentina – CS III	1417/27.07.2015
10	Participare la Școala de Vară	Danemarca/Copenhaga	Pascu Mihai – CS I	1461/03.08.2015
11	Participare la Scoala Internationala de Vara	Finlanda/Tampere	Matei Consuela – CS III	1487/06.08.2015
12	International School on Ultra-Intense Lasers Lab.	Federația Rusă/ Moscova	Budriga Olimpia – CS III	1602/26.08.2015
13	Participare la Școala de Vara si Conferința	Bulgaria/Sozopol	Dinescu Gheorghe– CS I	1696/14.09.2015
14	Curs pentru certificare Ofițer cu Securitatea Laser	Anglia	Trupina Ioana	1708/15.09.2015
15	Studii de specializare in cadrul Laboratorului de Geologie, Ecole Normale Supérieure Lyon	Franța/Lyon	Ilie Georgiana Alina-ACS	1926/16.10.2015

Perfecționarea resursei umane - personal auxiliar

Nr. Crt.	Denumire curs	Tara/Oras	Nume si prenume/ Functia	Perioada
1.	Participare la cursul “Managementul Achizițiilor Publice-Soluții Eficiente in Achiziții Publice”	Romania/Bran	Constantin Mihaela-Contabil	Perioada 19-22.11.2015
2.	Participare la cursul “Managementul Achizițiilor Publice-Soluții Eficiente in Achiziții Publice”	Romania/Bran	Ionita Marian-Tehnician	Perioada 19-22.11.2015
3.	Participare la cursul “Managementul Achizițiilor	Romania/Bran	Constantin Laurentiu-	Perioada 19-22.11.2015



	Publice-Soluții Eficiente în Achiziții Publice``		Tehnician II	
4.	Curs de formare profesională Arhivar	Romania/Bucuresti	Caciula Dragos Traian-Arhivar	Perioada 31.01.2015-28.02.2015
5.	Curs de instruire a personalului în vederea autorizării ca electrician	Romania/Bucuresti	Vuta Stan-Electrician	Perioada Martie 2015
6.	Curs de instruire a personalului în vederea autorizării ca electrician	Romania/Bucuresti	Guta Constantin-Electrician	Perioada Martie 2015

5.3. Informații privind politica de dezvoltare a resursei umane de cercetare-dezvoltare.

Politica de resurse umane a institutului este esențială în strategia de dezvoltare a INFLPR. Ea se manifestă pe trei direcții:

1. Atragerea și selecția riguroasă (la angajare) a personalului științific.
2. Motivarea personalului, prin:
 - ✓ procesul de perfecționare continuă a pregătirii;
 - ✓ flexibilitatea încadrării în activitatea institutului, în funcție de aptitudini și dorințe personale;
 - ✓ recompensele materiale și morale, în particular promovarea profesională.
3. Deschiderea spre comunicare și cooperare în interiorul și exteriorul institutului.

Principalele mijloace utilizate în mod tradițional de către institut pentru a atrage, forma și menține în institut un personal de cercetare de nivel înalt (inclusiv cercetători români cu experiență în cercetare acumulată în stagii) sunt:

- ✓ Imaginea generală a institutului, ca organizație CD performantă, compatibilă cu standardele internaționale
 - Tematica de cercetare atractivă, la nivel internațional, corelată cu prioritățile de cercetare pe plan național și internațional (în principal – european, în cadrul UE).
 - Condiții atractive de muncă (infrastructură de cercetare performantă, posibilități de specializare, sistemul de salarizare stimulat etc.
- ✓ Încurajarea și sprijinirea tinerilor angajați se face, printre altele, prin asigurarea condițiilor de lucru pentru partea experimentală a programului de doctorat, dar și pentru derularea propriilor propuneri de proiecte .



- ✓ Atragerea de tineri absolvenți cu studii superioare se desfășoară în mod constant prin activități didactice care se desfășoară în institut (cursuri și laboratoare de specialitate, practică de vară, pregătirea unor lucrări de diplomă și dizertații de master).
- ✓ Toți cercetătorii sunt încurajați să participe la programele de cercetare prin propuneri de proiecte noi în colaborare cu mediul academic și industrial.
- ✓ Promovarea tuturor categoriilor de cercetători se face prin concurs, ori de câte ori lucrul acesta este posibil, chiar și în condițiile în care disponibilitățile financiare ale institutului sunt mai reduse.

6. INFRASTRUCTURA DE CERCETARE-DEZVOLTARE, FACILITĂȚI DE CERCETARE

6.1. Laboratoare de cercetare-dezvoltare 2014/2015: 6/6

- Secția Laseri
- Laboratorul de Electronică Cuantică a Solidului
- Laboratorul de Fizica Plasmei și Fuziunii Nucleare
- Laboratorul de Acceleratori de Electroni
- Laboratorul Plasmă de Temperaturi Joase
- Centrul de Tehnologii Avansate cu Laser

6.2. Laboratoare de încercări acreditate/neacreditate 2014/2015

Laboratoare acreditate: 0/0

Laboratoare neacreditate: 3/3

- Laboratorul de Metrologie și Standardizare Laser
- Laboratorul de încercări I.S.O de componente și Materiale Optice
- Laboratorul de Dozimetrie Standard Secundară la Energii Înalte

6.3. Instalații și obiective speciale de interes național 2014/2015: 2/2

Instalații de Interes Național din cadrul Laboratorului Acceleratoare de Electroni:

- Accelerator linear de 10 MeV - ALIN-10
- Accelerator linear de 7 MeV - ALID- 7

6.4. Măsurile de creștere a capacității de cercetare-dezvoltare corelate cu asigurarea unui grad de utilizare optim.

- deschiderea pentru utilizatorii din comunitatea științifică și IMM-uri a facilității CETAL;

- dezvoltarea de parteneriate la nivel național și internațional (cu personalități/ instituții / asociații profesionale) în vederea participării la programele CDI naționale și europene specifice domeniului de activitate;
- Angajarea de personal specializat în managementul proiectelor;
- Creșterea vizibilității institutului, a infrastructurii de cercetare și a personalului prin continuarea participării în rețele europene de cercetare (EURATOM, LASERLAB, COST, FAIR, IUCN-DUBNA);
- Inscrierea INCD în baze de date internaționale care promovează parteneriatele;
- Inscrierea INCD ca membru în rețele naționale de cercetare, membru în asociații profesionale de prestigiu pe plan național și internațional;

7. REZULTATELE ACTIVITĂȚII DE CERCETARE-DEZVOLTARE

7.1. Structura rezultatelor de cercetare-dezvoltare

		INFLPR 2015/2014	ISS 2015/2014	INFLPR SI ISS 2015/2014
7.1.1	Lucrări^v științifice și tehnice în reviste de specialitate cotate ISI	277/220	155/99	432/319
7.1.2	Factor de impact cumulat al lucrărilor cotate ISI	580.964/464	442.184/420.052	1023.148/884,052
7.1.3	Citări în reviste de specialitate cotate ISI	2561/2251	2514/5035	5075/7286
7.1.4	Brevete^{vi} de invenție (solicitate/acordate)	26/11//13/6	0/0//1/0	26/11//13/7
7.1.5	Cercetări în sistemul ISI al cercetărilor brevetate	0/0	0/0	0/0
7.1.6	Produse/servicii/tehnologii rezultate din activitățile de cercetare bazate pe brevete, omologări sau inovații proprii^{vii}	2/6/3//0/0/18	0/0/0//0/0/0	2/6/3//0/0/18
7.1.7	Lucrări științifice/tehnice^{viii} în reviste de specialitate fără cotație ISI	18/29	21/10	39/39
7.1.8	Comunicări științifice^{ix} prezentate la conferințe internaționale	461/406	39/33	500/439
7.1.9	Studii^x prospective și tehnologice, normative, proceduri, metodologii și planuri tehnice noi sau	0/4		



	perfecționate, comandate sau utilizate de beneficiar		0/0	0/4
7.1.10	Drepturi de autor^{xi} protejate ORDA sau in sisteme similare legale	0/0	0/0	0/0

7.2. Rezultatele de cercetare-dezvoltare valorificate și efecte obținute

În principal rezultatele cercetării-dezvoltării s-au concretizat prin realizarea de lucrări științifice și brevete care au condus la diseminarea activității desfășurate în institut permițând în acest fel crearea unor consorții științifice și tehnologice la nivel național și internațional. Astfel au fost câștigate proiecte în cadrul Programului Național de Cercetare-Dezvoltare, precum și la nivel european prin proiecte Euratom, Laserlab, Horizon 2020, ESA. În mod particular, cateva rezultate de excepție au dus la stabilirea pe piața serviciilor științifice/tehnice a INFLPR:

- Acordarea de asistentă și expertiză tehnică pentru întreprinderi care folosesc acceleratoare de electroni (WALTER TOSTO WTB);
- Dezvoltarea de tehnologii pentru realizarea suprafețelor dure folosite în cercetarea de fuziune nucleară (IPP Garching, Culham Centre for Fusion Energy, CEA Cadarache, etc.);
- Operarea unui motor de automobil Renault folosind doar dispozitive laser de tip 'bujie' (colaborare între INFLPR, Laboratorul de Electronica Cuantică a Solidului și Renault Technologie Roumanie);
- Aplicarea tomografiei de raze X în monitorizarea asigurării calității producției cablurilor supraconductoare de tip (cable-in-conduit conductor) CICC din care se realizează bobinele sistemului de câmp magnetic toroidal al instalației tokamak de ultimă generație JT-60SA (Contract de servicii expert no. F4E-BAO-005, finalizat în 2015, contract subject: Quality control monitoring of NbTi strands and conductor for JT-60SA TF coils: "extended geometry". Contracting party: The European Joint Undertaking for ITER and the Development of Fusion Energy -F4E-)

7.3. Oportunități de valorificare a rezultatelor de cercetare

În scopul valorificării cercetărilor aplicative și facilitarea transferului tehnologic, INFLPR susține dezvoltarea propriului Centru de Transfer Tehnologic Inovare și Marketing. Pe lângă dezvoltarea CTTIM, institutul este membru fondator în clusterul inovativ ce reunește peste 70 întreprinderi, Magurele High Tech Cluster.



*The content of this document does not necessarily represent the official position of the European Union or of the Government of Burundi.
For detailed information regarding the other programmes co-financed by the European Union please visit www.fondco.eu



De asemenea, proiectul de anvergură economică și socială ``Magurele Science Park`` este sprijinit de INFLPR în special datorită posibilității dezvoltării mediului antreprenorial și stransa legătură cu cercetarea și dezvoltarea științifică.

Toate cele prezentate mai sus sunt posibilități de excepție pentru valorificarea rezultatelor CD obținute de INFLPR.

- Reintegrarea unor cercetători români aflați în străinătate;
- Creșterea numărului de masteranzi și doctoranzi;
- Noi surse de finanțare a cercetării / infrastructurii de cercetare: Horizon 2020, Programul privind Competitivitatea și Inovarea; Programele de coeziune economică și socială; Programele de cercetare și expertiză ale diferitelor ministere; Dezvoltarea puternică a sectorului privat și a cerințelor de colaborare;
- Existența surselor de informare și formare cu privire la aplicarea unor măsuri de asigurare a calității în cercetare (conferințe, seminarii interne și internaționale);
- Dezvoltarea serviciului de cercetare științifică, personal competent pe diverse domenii: financiar, tehnic, administrativ.

7.4. Măsuri privind creșterea capacității

Măsurile de creștere a capacității de cercetare-dezvoltare au în vedere două direcții majore: infrastructura de cercetare-dezvoltare și resursele umane.

În ceea ce privește infrastructura, măsurile se referă la:

- creșterea permanentă a calității echipamentelor;
- îmbunătățirea sistemelor de arhivare și stocare a datelor și de procesare a bazei de date .

Pentru asigurarea unui grad optim de utilizare a infrastructurii se are în vedere creșterea, în paralel, a nivelului de pregătire a personalului de cercetare, atragerea și instruirea tinerilor cercetători și punerea în valoare a competențelor și potențialului de cercetare din INFLPR prin vizite de lucru ale unor personalități științifice și cercetători de mare valoare din Europa.

8. MĂSURI DE CREȘTERE A PRESTIGIULUI ȘI VIZIBILITĂȚII INSTITUTULUI

Rezultatele INFLPR în anul 2015 sunt în concordanță cu strategia de dezvoltare a institutului, cu strategia cercetării de fizică și strategia națională de cercetare.

Printre obiectivele programatice ale INFLPR se numără:

- Consolidarea poziției fruntașe în ierarhia cercetării românești;
- Creșterea rolului institutului în cercetarea fundamentală care sprijină ELI-NP;
- Creșterea participării INFLPR în EURATOM și LASERLAB



Că măsură de creștere a vizibilității, Centrul de Transfer Tehnologic CTTIM-INFLPR (înființat prin Ordinul nr. 600/23.10.2014 al Ministrului Delegat pentru învățământ superior, cercetare științifică și dezvoltare tehnologică) s-a implicat în identificarea rezultatelor activităților de cercetare-dezvoltare cu potențial de transfer tehnologic, participarea cu stand propriu la Salonul Cercetării Românești organizat de MEN la Pavilionul expozițional al TIB (2015).

8.1. Prezentarea activității de colaborare prin parteneriate

a) dezvoltarea de parteneriate la nivel național și internațional

Parteneriate internaționale

1. Parteneriat în cadrul COST-CM1006, "European F-Element Network," 2011-2015. (http://www.cost.eu/COST_Actions/cmst/eufen);
2. Parteneriat în cadrul COST-CM1104, "Reducible oxide chemistry, structure and functions," 2012-2016. (http://www.cost.eu/COST_Actions/cmst/CM1104);
3. Parteneriat în cadrul [COST-MP1204](http://www.cost.eu/COST_Actions/mpns/MP1204), "TERA - MIR Radiation: Materials, Generation, Detection and Applications", 2012-2016. (http://www.cost.eu/COST_Actions/mpns/MP1204);
4. Acord de colaborare între INFLPR – Grup Optica Neliniară și Informațională și IEEN - Laboratorul Nanotehnologie, prin Academia Română și Academia de Științe a Moldovei
Dr. Maria DINESCU, "Materiale perovskitice nanostructurate cu bandă interzisă mică pentru aplicații fotovoltaice și generare de hidrogen prin fotocataliză", 18 RO-CH, 2013-2015;
5. COST MP 1205- 43 instituții din 26 țări participante- Advances in Optofluidics;
6. COST MP 1106- 55 instituții din 32 țări participante- Smart and green interfaces;
7. PICS (Programmes Internationales de Collaboration Scientifique) Franța, Anglia, România „Mecanisme statistice de cumul : investigație fundamentală a problemei de parametrizare a convecției”;
8. EUROfusion Germania/Inst. Max-Planck pt. Fizica Plasmei WP CD – P /Modelarea curenților halo în timpul disrupțiilor în tokamakul ITER 494,246/2014-2016;
9. Colaborare bilaterală SUA/ Laboratorul de Fizica Plasmei, Dep. Teorie, Princeton
Numerical simulation of electromagnetic interaction of MHD instabilities in tokamaks with resistive walls 120,000/2012-2015;



10. IFA-CEA Franta-Romania Cresterea duratei de viața a placilor din CFC, grafit și CuCrZr acoperite cu W pentru utilizarea de lunga durata la interfata cu plasma de fuziune pentru proiectul WEST/PFCOAT/C4-07/IFA/27.06.14-30.06.16;
11. EUROfusion EU-Ro Participarea României la EUROfusion WPJET2 și cercetări complementare- Taierea probelor de Be și analiza PFC din peretele de tip ITER de la JET utilizând GDOES, TDS și tehnici de raze X (WPJET2_P);
12. EUROfusion EU-Ro Participarea Romaniei la EUROfusion WPMAG și cercetări complementare /EUROfusion WPMAG (1EU-9/05.06.2014);
13. EUROfusion EU-Ro Participarea Romaniei la EUROfusion WPMAT și cercetări complementare /EUROfusion WPMAT-RO (1EU-8 /05.06.2014);
14. EUROfusion EU-Ro Participarea Romaniei la EUROfusion WPJET1 și cercetări complementare /EUROfusion WPJET1-RO (1EU-4 /05.06.2014);
15. EUROfusion EU-Ro Participarea Romaniei la EUROfusion WPJET4-GSU și cercetări complementare /EUROfusion WPJET4-RO (1EU-6 /05.06.2014);
16. Fusion for Energy F4E-BAO-005 (MS-MG) - Quality Control Monitoring of NbTi Strands and Conductor for JT-60SA TF Coils: "Extended Geometry";
17. IFA-CEA C4-01:Franta-Romania/ Caracterizarea și modelarea cablurilor supraconductoare: examinarea 3D de înaltă acuratețe a cablurilor supraconductoare prin micro-tomografie și îmbunătățirea modelelor multifizice (electromagnetice, termo-hidraulice și mecanice) ale acestora ;
18. COST Action MP1204 28 țări UE/ Elvetia, Norvegia, Turcia, Serbia, Rusia, Ucraina, Armenia, Moldova TERA-MIR Radiation: Materials, Generation, Detection and Applications;
19. COST Action IC1101 22 țări UE/ Japonia, Australia, Taiwan, Coreea, Pakistan Optical Wireless Communications - An Emerging Technology;
20. COST Action TD1205 16 țări UE/ Armenia/ Australia, Canada Innovative methods in radiotherapy and radiosurgery using synchrotron radiation;
21. COST Action ES1309 24 țări UE Innovative optical Tools for proximal sensing of ecophysiological processes (OPTIMISE);
22. COST Action FP1302 22 țări UE/ JaponiaWOOD MUSICK;
23. COST Action TD1401 17 țări UE/ Elvetia, Israel Fast Advanced Scintillator Timing (FAST);



24. COST Action MP1401 25 țări UE/ Elvetia, Israel, Bosnia & Hertegovina Advanced fibre laser and coherent source as tools for society, manufacturing and life science;
25. COST Action MP1307 24 țări UE/ Elvetia, Bosnia & Hertegovina, Israel, Norvegia, Serbia Stable Next-Generation Photovoltaics : Unraveling degradation mechanisms of Organic Solar Cells;
26. FP7 9 țări UE/ 12 unități colaboratoare CLS - Creative Little Scientists;
27. LLL - Comenius 10 țări UE/ 12 unități colaboratoare INSTEM- Inquiry Network for Science Technology Engineering Mathematics education;
28. LLL – Comenius 10 țări UE/ 11 unități colaboratoare SUSTAIN-Supporting-science-teaching advancement through inquiry;
29. LLL – Erasmus+ 4 țări UE/ 5 unități colaboratoare CEYS - Creativity in Early Years Science Education;
30. COST MP1101 21 țări Biomedical Applications of Plasma Technology;
31. COST TD 1208 34 țări Electrical discharges with liquids for future applications
32. Horizon 2020 33 țări/ 300 orase europene/ European Researchers Night #doyouspeakscience;
33. Colaborare cu IUCN Dubna Russia- Institutul Unificat pentru Cercetari Nucleare Plasma treatment of track membranes for biomedical and nanotechnology applications;
34. 1-EU-EUROFusion 27 țări EUROfusion consortium contribution in education through predoctoral and doctoral research in field of nuclear fusion;
35. 1-EU-EUROFusion 27 țări Romanian participation in the EUROfusion WPPFC and complementary research;
36. ITER development Franta Studiul proprietăților mecanice ale acoperirilor din Be+D2;
37. M-ERA-NET Slovenia, Belgia, Portugalia Novel type of antibacterial coatings on textile materials and plastics with controllable release of antibacterial agent.



Parteneri internaționali

1. Institut de Recherche de Chimie Paris (IRCP), groupe Matériaux pour la Photonique et l'OptoÉlectronique (MPOE), Chimie ParisTech, Paris, France.
2. IEEN - Laboratorul Nanotehnologie, Academia de Stiinte a Moldovei
3. Insitutul Paul Scherrer – Villigen – Elvetia
4. Commissariat à l'énergie atomique et aux énergies alternatives, France
5. National Radioactive Waste Management Agency – ANDRA, Franta
6. Institute of Photonic Technology - IPHT Jena
7. Aston University - School of Engineering & Applied Science, Marea Britanie
8. University of Limerick – Optical Fibre Sensors Research Centre, Irlanda
9. University of Palermo – Department of Physics & Astronomy, Italia
10. iXFiber, Franta
11. ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) Frascati, Italia.
12. Ellinogermaniki Agogi (EA) – Grecia
13. Institute of Education, University of London, Marea Britanie
14. Open University, Londra, Marea Britanie
15. Bishop Grosseteste University College Lincoln, Marea Britanie
16. University of Eastern Finland
17. Artevelde University College, Belgia
18. Goethe University Frankfurt, Germania
19. University of Minho, Portugalia
20. Université de Picardie Jules Verne, Franta
21. University of Malta
22. Universitat Bonn, Germania
23. Bodmin College, Marea Britanie
24. Dublin City University, Irlanda
25. The Educational Research and Evaluation Group, Institute of Applied and Computonal and Mathematics, FORTH –Hellas, Grecia
26. Hacettepe University Turcia
27. Leopold-Franzens-Universität Innsbruck, Austria
28. Martin-Luther-Universität Halle, Germania
29. Norwegian University of Science and Technology, Norvegia
30. Pädagogische Hochschule Freiburg, Germania
31. Università di Napoli Federico II, Italia
32. University of Exeter, Marea Britanie
33. University of Liverpool, Marea Britanie
34. Walter Rathenau Gewerbeschule, Germania
35. Fundatia La main à la pâte, Paris, Franta – coordonatorul proiectului
36. Ecole des Mines de Nantes, Nantes, France
37. Freie Universität Berlin, Berlin, Germania
38. St Patrick's College, Drumcondra, Dublin, Ireland
39. ANISN - National Association of Natural Science Teachers, Neapole, Italia
40. Institutul National pentru Fizica Laserilor, Plasmei si Radiatiei, Magurele, Romania



41. Vinca Institute of Nuclear Sciences (University of Belgrade), Belgrad, Serbia
42. University of Trnava, Trnava, Slovacia
43. University of Ljubljana, Liubliana, Slovenia
44. University of Leicester, Leicester, Marea Britanie
45. Science Learning Centre, Pädagogische Hochschule Wien, Viena, Austria
46. GHENT UNIVERSITY, Department of Applied Physics; Belgium
47. CENTEXBEL, Brussels, Belgium
48. UNIVERSITY OF MINHO, Braga, Portugal
49. JOZEF STEFAN INSTITUTE, Ljubljana, Slovenia
50. SMART COM D.O.O. Ljubljana-Črnuče, Slovenia
51. CEA Cadarache, France
52. Laboratoire Hubert Curien, Université Jean-Monet, Saint-Etienne (Franta).
53. Institut of Solid State Physics, Bulgarian Academy of Science (Bulgaria).
54. Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano
55. CNR – IEIT, Milano (Italia).
56. Universitatea din Ljubljana (Slovenia).
57. Institute of Fluid Flow Machinery, Polish Academy of Sciences, Grandk (Polland).
58. University of Bari (Italia)
59. Inštitut IRNAS Rače (Slovenia)

Parteneriate interne: proiecte de cercetare dezvoltare

1. Renault Technologies Roumanie S.R.L., North Gate Business Center, Soseaua Pipera-Tunari, Bucuresti;
2. Institutul National de Cercetare-Dezvoltare pentru Fizica Materialelor (INCDFM), Magurele;
3. Universitatea Politehnica Bucuresti;
4. Institutul National de Cercetare si Dezvoltare pentru Fizica si Inginerie Nucleara „Horia Hulubei”;
5. Institutul de Chimie Macromoleculara "Petru Poni" Iasi;
6. Institutul National de Cercetare Dezvoltare pentru Optoelectronica;
7. SC SITEX 45 SRL;
8. Universitatea din Bucuresti;
9. Institutul Național de Cercetare-Dezvoltare pentru Chimie si Petrochimie;
10. Institutul National pentru Fizica Materialelor;
11. Institutul National de Cercetare-Dezvoltare in Microtehnologie;
12. PRO OPTICA;
13. R&D Consultanța si Servicii ;
14. Institutul de Biochimie al Academiei Romane ;
15. Tehnomed Impex CO S.A;
16. Optoelectronica 2001 S.A. ;
17. Institutul National de Cercetare Dezvoltare pentru Microbiologie si Imunologie Cantacuzino;
18. MEDSIS Craiova;



19. Contract No: 85/2012; Activity modeling and simulation of bacterial efflux pump inhibitors based on advanced laser methods; Project code: PN-II-PT-PCCA-2011-3.1-1350;
20. Adrem Invest S.R.L., Bucuresti, Romania;
21. M.G.M. Construct S.R.L., Constanta, Romania;
22. Facultatea de Chimie Aplicata si Stiinta Materialelor, Universitatea Politehnica din Bucuresti, Bucuresti, Romania;
23. UEFISCDI Parteneriat 301/2014: Sistem complex de scanare cu raze X multiparametric pentru detectia materialelor periculoase din bagaje, cu aplicatii in domeniul securitatii (Multi X-Ray Scan);
24. Administratia Nationala de Meteorologie;
25. Advanced Studies and Research Center Bucuresti;
26. SC Apellaser SRL;
27. Universitatea tehnica „Gh. Asachi” din Iasi;
28. Universitatea Tehnica din Cluj-Napoca;
29. SC Computerpower S.R.L.;
30. Institutul de Fizica Atomica;
31. Institutul National de Cercetare Dezvoltare pentru Optoelectronica INOE;
32. SC PM CONCEPT CONSULTING SRL;
33. SIVECO Romania;
34. MEDNET Marketing Research Center;
35. Institutul National de CD pentru INGINERIE ELECTRICĂ ICPE-CA;
36. INSTITUTUL DE CHIMIE FIZICA “ILIE MURGULESCU”(ICF);
37. UNIVERSITATEA BUCURESTI (UB), Facultatea de Chimie;
38. UNIVERSITATEA BUCURESTI (UB), Facultatea de Fizica;
39. Universitatea din Bucuresti, Facultatea de Biologie, Departamentul de Biochimie si Biologie Moleculara ;
40. UNIVERSITATEA DIN CRAIOVA (UCV);
41. Universitatea Ovidius din Constanța;
42. Universitatea Alexandru Ioan Cuza Iasi;
43. Universitatea Politehnica Bucuresti;
44. S.C. Computer Power S.R.L.;
45. S.C. ICPEST S.R.L.;
46. MVP Activ Construct;
47. S.C. DAVO STAR IMPEX S.R.L.;
48. Universitatea Politehnica Bucuresti, Facultatea de Automatica si Calculatoare;
49. Universitatea Politehnica Bucuresti, Centrul de Microscopie, Microanaliza si Procesarea Informației;
50. INOE;
51. AZEL S.R.L.;
52. ELI-NP (TDR 4);
53. DROMOSIS.



b) înscrierea institutului în baze de date internaționale care promovează parteneriatele

- Membru în Consorțiul ADAS (Atomic Data and Analysis Structure)
- Membru Facility for Antiproton and Ion Research (FAIR)- SPARC
- Membru în rețelele COST- Actions: MP1203, MP1205, MP1208, BM1003
- Membru Project SILMI (Super Intense Laser-Matter Interactions).
- COST Action IC1101 - Optical Wireless Communications - An Emerging Technology
- COST Action TD1205 - Innovative methods in radiotherapy and radiosurgery using synchrotron radiation
- COST Action ES1309 - Innovative optical Tools for proximal sensing of ecophysiological processes (OPTIMISE)
- COST Action MP1401 - Advanced fibre laser and coherent source as tools for society, manufacturing and lifescience
- COST Action MP1307 - Stable Next-Generation Photovoltaics: Unraveling degradation mechanisms of Organic Solar Cells by complementary characterization techniques (StableNextSol)
- COST Action FP1302 - WOOD MUSICK
- COST Action MP1204 - TERA-MIR Radiation: Materials, Generation, Detection and Applications
- COST Action TD1401 - Fast Advanced Scintillator Timing (FAST)
- INFLPR este înscris în baza de date a Programului European Horizons 2020 (PIC 999499253)

c) înscrierea institutului ca membru în rețele de cercetare / membru în asociații profesionale de prestigiu pe plan național/internațional

INFLPR este membru în prestigioasa rețea de cercetare LASERLAB care reunește toate laboratoarele de cercetare care folosesc laseri de mare putere;

INFLPR este membru în rețeaua EURATOM;

INFLPR este membru în numeroase rețele COST care asigură o conectare a cercetătorilor din institut cu parteneri europeni cu scopul efectuării unor cercetări comune în cadrul proiectelor finanțate de comunitatea europeană;

d) participare în comisii de evaluare concursuri naționale/internaționale

1. Gheorghe Dinescu - evaluator al proiectelor naționale de cercetare pentru stimularea constituirii de tinere echipe de cercetare independente - tip TE
2. Gheorghe Dinescu membru în comisia de examen de abilitare a Dr. Cristian Teodorescu (INCDFM)
3. Bogdana Mitu – evaluator al proiectelor naționale de cercetare pentru stimularea constituirii de tinere echipe de cercetare independente - tip TE



4. Cristian Lungu - evaluator al proiectelor naționale de cercetare pentru stimularea constituirii de tinere echipe de cercetare independente - tip TE

e) personalități științifice ce au vizitat institutul

1. Dr. Adam STRZEP, Institute of Low Temperature and Structure Research, Polish Academy of Science, Wroclaw, Poland. 18.11.2015, seminar: " Investigation of Spectroscopic Properties of Lanthanide Doped Materials in Spectroscopy of Laser Doped Materials".
2. Acad. Prof. Ion Tighineanu, Prim-Vicepresedinte al Academiei de Stiințe a Moldovei, Fondator si Director al Centrului National pentru Studiul si Testarea Materialelor, Moldova
3. Dr. Gregory Quarles – Chief Scientist at the Optical Society (OSA), USA
4. Dr. Gabriel Popescu, Univ. Illinois
5. Dr. Kravets Lyubov, JINR Dubna , Rusia
6. Dr. Christian Grisolia, IRFM Cadarache, Franța
7. Prof Dr. J D. Woerner, Director General ESA
8. Dr. Alan Owens, ESTEC (ESA)
9. Dr.Ing. Christian Poivey ESTEC (ESA)
10. Prof.Dr.David Neely, [Rutherford Appleton Laboratory](#), UK
11. Johann-Dietrich Woerner - Director General ESA.
12. Gerard Mourou, IZEST, Ecole Polytechnique, Franța.
13. Vizita Ministrului Cercetarii Științifice Egipt,Pakistan e.t.c.

f) lecții invitate, cursuri și seminarii ținute de personalități științifice invitate

1. N. Pavel, G. Salamu, O. V. Grigore, M. Dinca, T. Dascalu, N. Boicea, and A. Birtas, "High-Peak Power Passively Q-switched Nd:YAG/Cr⁴⁺:YAG Lasers for Successful Ignition of an Automobile Engine," The 15th International Balkan Workshop on Applied Physics, July 2-4, 2015, Constanța, Romania, presentation S2-L3, Book of Abstracts, pgs. 80-81.;
2. N. Pavel, G. Salamu, F. Voicu, O. Grigore, T. Dascalu, F. Jipa, and M. Zamfirescu, "Depressed-cladding waveguides inscribed in Nd:YAG and Nd:YVO₄ by femtosecond-laser writing technique. Realization and laser emission," ROMOPTO 2015, 11th International Conference on Optics "Micro- to Nano-Photonics IV", September 1-4, 2015, Bucharest, Romania; presentation I.I.7. ;
3. T. Dascalu, A. Popa, O. Grigore, M. P. Dinca, G. Cojocaru, R. Ungureanu, D. F. Mihailescu, "High-Intensity THz Pulses: Generation and Applications," ROMOPTO 2015, 11th International Conference on Optics "Micro- to Nano-Photonics IV", September 1-4, 2015, Bucharest, Romania; presentation I.I.4.;



4. O. Grigore, R. Ungureanu, G. Cojocaru, R. Banici, M.P. Dinca, M. Mernea, S. Avram, D.F. Mihailescu, and T. Dascalu, "Method for Generation Multiple High-Intensity THz Pulses within 1-100 ps Time Range," NATO Advanced Research Workshop on THz Diagnostics of CBRN effects and Detection of Explosives & CBRN, 3-6 November, 2015, Izmir, Turkey;
5. A. Achim, "Crystal growth and applications for linear and non-linear optics," Istituto Nazionale di Fisica Nucleare, Laboratori Nazionali del Gran Sasso, Via G. Acitelli, 22, 67100 Assergi L'Aquila, Italy; 15-21 November 2015;
6. V Stancalie, Effects of quantum interference between radiative and dielectronic recombination on photo-recombination cross-section profiles for the Be-like ions Al⁹⁺ and C²⁺, FPPT7, Kochi, India, 1-4 April 2015;
7. K Aggarwal, P. Bogdanovich, R Karpuskiene, F Keenan, R Kiseliu, V Stancalie, "Energy levels and radiative rates for transitions in Cr-like CoIV and Ni V, ADAS, 19th International Workshop 30 Sept-2 Oct 2015, INAF-Osservatorio di Astrofisica di Catania, Sicily, Italy;
8. Petris, Measurement of nonlinear optical parameters by interferometric methods, The Twelfth International Conference "Correlation Optics 2015", Chernivtsi, Ukraine, Sep. 14-18, 2015;
9. Petris, P. Gheorghe, V. I. Vlad, I. Rau, F. Kajzar, Interferometric method for the study of spatial phase modulation induced by light in dye-doped DNA complexes, 11-th International Conference on Optics "Micro- to Nano-Photonics IV" ROMOPTO 2015, Bucharest, Romania, Sept. 1-4, 2015;
10. Dinescu M, Papavlu P; Filipescu M; Dinca V; Lippert T "Writing" by Laser Induced Forward Transfer: bio and sensing applications"; Biophysics@Rome 2015, 28-29 Mai 2015, Roma, Italia;
11. V. Dinca, " Laser-Induced Forward Transfer: An approach to single-step multi-functional patterns for biological and sensor applications"-Dinca Valentina, 3RD FAST-DOT SUMMER SCHOOL "PHOTONICS MEETS BIOLOGY" 28 September -2 October 2015, Anissaras, Crete, Greece;
12. Rotaru A; "From relaxor dielectrics to multiferroics constructing phase diagrams of tetragonal tungsten bronzes with formula A₆MNb₉O₃₀ (A=Ba,Sr,Ca; M=Ga,Sc,In)"; 7th Symposium on Thermodynamics and Phase Diagrams, 8 Iunie, 2015, Bor, Serbia; Sedmi simpozijum o TERMODINAMICI I FAZNIM DIJAGRAMIMA, TPD VII 2015, 5-6 pag., 2015, ISBN: 978=86-6305-029-7;
13. Staicu, A. Dinache, A. Smarandache, T. Tozar, A. Pascu, V. Nastasa, M. Boni, A. Simon, I. R. Andrei, M. Enescu, M. L. „Pascu Photophysical studies of some compounds of



- interest in targeted drug delivery" International Conference on Optics "Micro- to Nano-Photonics IV - ROMOPTO 2015, Bucharest, Romania, September 1 - 4, 2015;
14. M.L. Pascu, M. Boni, I.R. Andrei Optically pumped microliter droplets as lasing sources in the visible spectral range International Conference on Optics "Micro- to Nano-Photonics IV - ROMOPTO 2015, Bucharest, Romania, September 1 - 4, 2015;
 15. M.L. Pascu, R. Pirvulescu, T. Tozar, Laser methods in fighting multiple drug resistance, "New frontiers in regenerative medicine and surgery Interdisciplinarity, research and clinical applications" ISRMS Congress, 12 & 15- 16 May 2015, Bucharest, Romania;
 16. M.L. Pascu, R. Pirvulescu, M. Boni, I.R. Andrei, Laser beams interaction with droplets in view of biomedical applications 6th Congress of International PhotoTherapy Association, 9-10 July 2015, Nice, France;
 17. Simon, A. Stoicu, I.R. Andrei, T. Alexandru, A. Staicu, A. Smarandache, M.L. Pascu Wetting properties of medicines solutions exposed to laser beams and treated in hypergravity conditions "Smart and green interfaces: Fundamentals and diagnostics" (SGI-FunD) Symposium, 29-31 October 2015, Sofia, Bulgaria;
 18. Craciun, V.; Socol, G.; Axente, E.; Craciun, D.; Hermann, J.; Galca, A.; Pantelica, D.; Ionescu, P.; Luculescu, C.; Becherescu, N.; Martin, C.; "Combinatorial Pulsed Laser Deposition of Amorphous, Transparent and Conductive Oxides for Thin Film Transistors"; MRS Spring Meeting; 6-10 April 2015, San Francisco, California, USA;
 19. V. Craciun; "Pulsed laser deposition of new high-tech materials"- International year of the light -SCIENCE SECTION - 2 Materials & Lasers & Photonics-„Lights of the World”; 30th October - 1st November 2015, Bucharest, Romania;
 20. Simeone, D.; Socol, G.; Craciun, D.; Behdad, S.; Boesl, B.; Lambers, E.; Himcinschi, C.; Pantelica, D.; Ionescu, P.; Martin, C.; Vasile, B.; Makino, H.; Craciun, V.; "Investigations of radiations induced defects in pulsed laser deposited thin films"; 11th International Conference of Micro-to-Nano-Photonics IV (ROMOPTO); 1-4 September 2015, Bucharest ;
 21. The 11th International Conference on Optics “Micro- to Nano-Photonics IV” – ROMOPTO 2015, 1-4 septembrie, 2015, Bucharest, Romania – Chairman: Acad. Prof. Valentin I. VLAD, Presedintele Academiei Romane;
 22. Sporea, D., „Optical fiber sensors for radiation monitoring” - 20th IMEKO TC-4 International Symposium on "Research on Electrical and Electronic Measurement for the Economic Upturn", 15-17.09.2014, Benevento, Italia;



23. Sporea D., „Ionizing radiation dosimetry with optical fibers”, The 3rd International Conference on Lasers, Optics and Photonics, Valencia, Spain, 01-03 septembrie 2015;
24. Sporea D., A. Sporea, L. Mihai, A. Stancalie „Optical fibers behaviour under ionizing radiations”, The 11 th International Conference Micro- to Nano-Photonics IV-ROMOPTO 2015, Bucuresti, 1 - 4 septembrie, 2015;
25. Conferinta Internaționala “Science Education in School”, Galati, 3-4 aprilie 2015
26. Christian Grisolia, CEA, IRFM, Cadarache;
27. Marian ZAMFIRESCU; "The laser, a versatile tool for manufacturing and characterizations"; CONFERINȚA „LIGHTS OF THE WORLD”, BUCUREȘTI, 30 OCTOMBRIE – 1 NOIEMBRIE 2015;
28. Catalin Luculescu; "Nanostructured surface-enhanced Raman scattering substrates obtained by low energy plasmas" - ADVANCED TECHNOLOGIES AND METHODS FOR CHARACTERIZATION OF MULTIFUNCTIONAL THIN FILMS AND NANOSTRUCTURES, 21 – 22 July, 2015, Sofia, Bulgaria;

g) membri în colectivele de redacție ale revistelor cunoscute ISI (sau incluse în baze internaționale de date) și în colective editoriale naționale și/sau internaționale

Titlu	Revista	Numele si prenumele persoanelor
Membru al Editorial Board	Romanian Journal of Physics	LUPEI Voicu
Membru colectiv editorial	Axioms	Acad. Prof. Valentin I. VLAD, Presedintele Academiei Romane
Director si membru al Consiliului editorial	Academica	Acad. Prof. Valentin I. VLAD, Presedintele Academiei Romane
Asistent editor	Biomaterials and Tissue Engineering Bulletin	Fufa Oana
Editor șef	ROMANIAN REPORTS IN PHYSICS	Acad. Prof. Valentin I. VLAD, Presedintele Academiei Romane
Editor șef	PROC. RO. ACADEMY A	Acad. Prof. Valentin I. VLAD, Presedintele Academiei Romane
Membru al Comitetului editorial	OAM-RC	Acad. Prof. Valentin I. VLAD, Presedintele Academiei Romane
Membru al Comitetului editorial	JEOS	Acad. Prof. Valentin I. VLAD, Presedintele Academiei Romane



Membru al Comitetului editorial	ROMANIAN REPORTS IN PHYSICS	Dr. Adrian PETRIS
Editor	Applied Surface Science	Maria Dinescu
Guest Editor	Applied Surface Science	Nicu Scarisoreanu
Membru colectiv referent	Journal of Thermal Analysis and Calorimetry	Andrei Rotaru
Membru colectiv	PHOTOMEDICINE AND LASER SURGERY (USA)	Pascu M.L.
Membru colectiv	Lasers in Medical Science (UK)	Pascu M.L.
Membru colectiv	Letters in Drug Design & Discovery - LDDD (USA)	Pascu M.L.
Membru colectiv	EXPERT EVALUATOR COST pentru DOMENIUL TRANSDISCIPLINAR SI pentru DOMENIUL BIOMEDICINA SI STIINTE BIOMEDICALE	Pascu M.L.
Membru colectiv	Biochemistry & Pharmacol Open Access Journal	Pascu M.L.
Membru colectiv	World Research Journal of Applied Physics-EXECUTIVE EDITOR	Pascu M.L.
Membru colectiv	Journal of Nano Research	Valentin Craciun
Membru colectiv	Applied Surface Science	Valentin Craciun
Membru colectiv	Plasma Processes and Polymers	Dinescu Gheorghe
Referent	Optocs Letters	Marian Zamfirescu
Referent	Optics Express	Marian Zamfirescu
Referent	Applied Surface Science	Marian Zamfirescu
Referent	Journal of Optics and Laser Technologies	Marian Zamfirescu

8.2. Prezentarea rezultatelor la târgurile și expozițiile naționale și internaționale:

a) târguri și expoziții naționale

1. Noaptea Cercetatorului, 25 septembrie 2015, București, Romania.
2. Salonul Cercetării Românești, Inventika 2015, Târgul internațional București, 14-17 octombrie 2015, participare cu stand propriu, București, Romania.

b) târguri și expoziții internaționale

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8.3. Premii obținute prin proces de selecție/distincții

Premii naționale și internaționale

Premiu	Autoritatea care l-a acordat	Autorii
Medalia de aur a târgului „International Fair of Inventions and Practical Ideas”	Societatea română a inventatorilor	C. Porosnicu, O. Trusca, C. Iacob, B. Butoi, I. Cretescu, M. Diaconu, P. Dinca, I. Jepu, O. G. Pompilian, M. Lungu, C.P. Lungu
Doctorat Honoris Causa	Université de Cergy-Pontoise	Ion N. MIHAILESCU
Student best oral presentation	International Conference on Optics "Micro- to Nano-Photonics IV - ROMOPTO 2015, Bucharest, Romania, September 1 - 4, 2015	Agota Simon
Ordinul Național „Steaua României” în grad de Ofițer (1 decembrie 2015)	Klaus Iohannis, Președintele României	Acad. Prof. Valentin I. VLAD, Președintele Academiei Române
Doctor Honoris Causa (12 octombrie 2015)	Universitatea „1 Decembrie 1918” din Alba Iulia	Acad. Prof. Valentin I. VLAD, Președintele Academiei Române
Excelența internațională recunoscută	European Optical Society (EOS) – Member of Executive Committee and Chairman of the Scientific Advisory Committee	Acad. Prof. Valentin I. VLAD, Președintele Academiei Române
Gamma radiation-induced formation of bismuth related active centre in Bi/Er/Yb co-doped fibre," <i>Asia Communications and Photonics Conference (ACP)</i> , Hong Kong, 19-23 noiembrie 2015.	Lucrarea a primit Optical Society of America "Best poster award ACP2015".	Binbin Yan, Yanhua Luo, D. Sporea, L. Mihai, D. Negut, Jianxiang Wen, Gui Xiao, Gang-Ding Peng
Testing of ZnSe, CaF ₂ , BaF ₂ , and sapphire windows under alpha particle irradiation	OMICS International Best Poster Award	Dan Sporea, Laura Mihai, Adelina Sporea, Ion Vâta

8.4. Prezentarea activității de mediatizare

a) extrase din presa

1. "Fizicianul Gerard Mourou despre Laserul de la Măgurele: Puterea emisiei este fenomenală"

http://stiri.tvr.ro/fizicianul-gerard-mourou-despre-laserul-de-la-magurele--puterea-emisiei-este-fenomenala_70132.html ; 30 ian. 2015



2. Articole și reportaje dedicate evenimentului Noaptea Cercetătorilor București

a) <http://www.hotnews.ro/stiri-esential-20442951-noaptea-cercetatorilor-2015-care-este-programul-experimentelor-concursurilor-pentru-copii-studenti.htm>

b) http://www.b365.ro/noaptea-cercetatorilor-2015-program-bucuresti-intrare-gratuita_237661.html

b) participare la dezbateri radiodifuzate/televizate

TV:

1. TVR -TELEJURNAL ``Fizicianul Gerard Mourou despre Laserul de la Măgurele: Puterea emisiei este fenomenală``

http://stiri.tvr.ro/fizicianul-gerard-mourou-despre-laserul-de-la-magurele--puterea-emisiei-este-fenomenala_70132_video.html#view

2. TVR 2, TVRi, TVR HD și TVR PLUS, Dr. Ing. Ion Morjan Director General INFLPR, Emisiune: Euroeconomia, ``Romania în elita cercetării mondiale``, 11. Feb. 2015.

Radio:

1. Radio Cultural, Dr. Traian Dascalu, 11 feb 2015.

9. SURSE DE INFORMARE ȘI DOCUMENTARE DIN PATRIMONIUL ȘTIINȚIFIC AL INSTITUTULUI.

În institut au fost întreprinse demersurile pentru a continua accesul la baze de date internaționale ISI Thompson, SCOPUS, programul național ANELIS, Biblioteca Națională de Fizică, numeroase cărți și reviste de specialitate.

10. CONCLUZII.

În anul 2015 Institutul de Fizică Laserilor, Plasma și Radiație a continuat programul de cercetare prin proiectele finanțate din Planul Național de Cercetare-Dezvoltare, Programul Nucleu precum și prin proiecte internaționale finanțate din fonduri publice (LASERLAB, EURATOM, ELI). Cu toate că au existat probleme de finanțare (în special legate de ritmul decontărilor programului EURATOM dar și cele generate de amânarea finanțării proiectelor de cercetare finanțate din planul național), cercetările efectuate s-au realizat la un înalt nivel științific, nivel atestat de numărul de publicații, participările la conferințele internaționale de specialitate, patente acordate dar și prin implicarea în parteneriate internaționale mari.

Realizarea a **432** lucrări științifice/tehnice în reviste de specialitate cotate ISI având un factor de impact cumulat de peste **1023** puncte, acumularea unui număr de peste **5075** citări (fără autocitări) în fluxul internațional principal ale revistelor ISI precum și solicitarea în 2015 a **26** brevete, acordarea în 2015 a **11** brevete de invenție naționale, arată că institutul



are o poziție bine stabilită în sistemul național de cercetare și, prin rezultatele obținute, se apropie constant de nivelul de performanță internațională.

Colaborarea științifică la nivel internațional este foarte bună, 59 parteneri internaționali, și acest fapt trebuie valorificat urmărindu-se creșterea procentului finanțării internaționale în bugetul institutului.

O analiză detaliată a rezultatelor obținute de către echipele de cercetare relevă mari diferențe între colectivele de cercetare în privința numărului de lucrări valoroase, patente, dezvoltarea de tehnici și tehnologii. În cazul domeniilor mai puțin dinamice se impune reconversia cercetătorilor valoroși către domeniile de foarte mare interes deschise de investiția CETAL. INFLPR s-a implicat cu hotărâre, și în anul 2015, în realizarea infrastructurii de cercetare ELI-NP pentru laserul de 2 x 10PW, prin furnizarea de expertiză tehnică și personal de cercetare.

11. PERSPECTIVE/PRIORITĂȚI PENTRU PERIOADA URMĂTOARE DE RAPORTARE.

INFLPR, prin natură activităților de cercetare fundamentală și aplicativă în domeniul fizicii laserilor plasmei și radiațiilor, participă la proiecte internaționale, europene și naționale. Cooperarea internațională reprezintă pentru INFLPR o prioritate majoră materializată în politici și programe create în concordanță cu Strategia de cercetare a MEN. Obiectivul strategic de creștere a capacității și competitivității sistemului de cercetare-dezvoltare din INFLPR are ca acțiune principală promovarea relațiilor internaționale. Strategia și programul de dezvoltare ale INFLPR pe următorii ani își propun susținerea proiectelor de CDI realizate în parteneriat la nivel internațional, ce vizează integrarea cercetărilor în programe internaționale reprezentative. În acest sens vor fi susținute activitățile pentru dezvoltarea parteneriatelor dintre echipele de cercetători din INFLPR și instituțiile de cercetare internaționale.

12. RAPORT DE AUDIT.

A se vedea Anexa 10.



Anexa 1: Raport de activitate al Consiliului de Administrație/Conducere.

În cursul anului 2015 ședințele Consiliului de Administrație (CA) al INFLPR s-au desfășurat lunar.

La ședințele CA au participat membrii de drept ai acestuia, inclusiv o serie de invitați, în funcție de ordinea de zi discutată.

Membrii CA al INFLPR sunt:

Dr.ing. Morjan Ion – Director general; Președinte al CA
Dr.Craciun Valentin – Președinte al Consiliului Științific; membru
Dr.Dascalu Traian – Specialist INFLPR; membru
DI.Asanica Gheorghe – Reprezentant MECS; membru
Dr.Ing.Ranea Constantin – Reprezentant ANCSI; membru (1.01.2015-6.10.2015)/
Ionel Adrian- Specialist Inst. Cantacuzino; membru (din data de 07.10.2015)
Dna.Masariu Mioara – Reprezentant Ministrul Finanțelor Publice; membru
Dna.Juganaru Georgeta – Reprezentant Ministrul Muncii Familiei Protecției
Sociale și Persoanelor Vârstnice; membru

În calitate de **invitați** la ședințele CA au mai luat parte:

Dr.Zgura Sorin – Director ISS – Filiala INFLPR
Ec.Osman Mihaela – Contabil Șef INFLPR

Consiliul de Administrație al INFLPR, întrunit în ședințe ordinare, a discutat, analizat și aprobat următoarele probleme stabilite prin ordinea de zi:

Ședința din data de 28.01.2015:

- Prezentarea Raportului Consiliului de Administrație și a Raportului anual al INFLPR pe anul 2014;
- Prezentarea Ofertei de servicii bancare BCR – Linie credit tip overdraft;
- Prezentarea Regulamentului de concurs pentru ocuparea funcției de Director Științific INFLPR, Director ISS-Filiala INFLPR și Șef Secție/laborator INFLPR;
- Diverse.

Ședința din data de 18.02.2015:

- Prezentarea proiectului de Buget Venituri și Cheltuieli INFLPR pe anul 2015;
- Diverse.

Ședința din data de 26.03.2015:

- Prezentarea Investițiilor propuse spre finanțare de INFLPR pentru anul 2015;
- Prezentarea Situației financiare a INFLPR la 01.04.2015;



- Prezentarea Comisiilor de concurs/soluționare a contestațiilor pentru ocuparea funcțiilor de Șef Secție/Laborator, Director Științific, Director Filială;
- Diverse.

Ședința din data de 29.04.2015:

- Prezentarea Rezultatelor concursurilor de promovare în funcțiile de Asistent cercetare științific stagiar, Cercetător Științific, Cercetător Științific grad III;
- Prezentarea Raportului Anual INFLPR și ISS Filiala INFLPR;
- Prezentarea Raportului Consiliului de Administrație INFLPR;
- Diverse.

Ședința din data de 26.05.2015:

- Prezentarea Situațiilor financiare anuale la 31.12.2014 INFLPR și ISS;
- Informare activități CETAL;
- Diverse.

Ședința din data de 30.06.2015;

- Prezentarea solicitării ISS filiala INFLPR cu privire la transformarea acestuia în Institut Național de Cercetare Dezvoltare;
- Solicitarea Consiliului Științific privind scoaterea la concurs a 3 posturi de Asistent cercetare științific stagiar;
- Prezentarea Comisiilor de concurs și soluționare a contestațiilor pentru ocuparea funcțiilor de: Director Științific INFLPR, Director Filiala ISS, Șef Secție/Laborator INFLPR;
- Diverse.

Ședința din data de 28.07.2015:

- Prezentarea Strategiei Științifice INFLPR;
- Prezentarea Proiectului P.O.C. – Secțiunea F ;
- Aprobarea participării ISS – Filiala INFLPR, ca membru fondator, la înființarea Asociației Centrul de Excelență pentru Aplicații Laser și Radiații – C.L.A.R.A.;
- Prezentarea Comisiilor de concurs și soluționare a contestațiilor pentru ocuparea funcțiilor de: Director Științific INFLPR, Director Filiala ISS, Șef Secție/Laborator INFLPR;
- Prezentarea Bilanțului Contabil al INFLPR la 30.06.2015;
- Prezentarea Bilanțului Contabil al ISS – Filiala INFLPR la 30.06.2015;
- Diverse.

Ședința din data de 02.09.2015:



- Participarea INFLPR la Programul Operațional Competitivitate 2014-2020;
- Prezentarea rezultatelor obținute de INFLPR la competiția Tinere Echipe 2014;
- Participarea INFLPR la Conferința ROMOPTO 2015;
- Diverse.

Ședința din data de 30.09.2015:

- Prezentarea Rezultatelor Concursului pentru ocuparea funcțiilor de Director ISS Filiala INFLPR; Director Științific INFLPR, Șef Secție / Laborator INFLPR;
- Situația încasărilor și a plăților în 30.09.2015 la nivelul INFLPR;
- Diverse.

Ședința din data de 30.10.2015:

- Prezentarea Regulamentului de concurs pentru ocuparea posturilor în cadrul ISS Filiala INFLPR;
- Prezentarea Regulamentului de concurs pentru ocuparea funcției de Șef Laborator în cadrul ISS-Filiala INFLPR;
- Prezentarea propunerii de participare a INFLPR ca membru în cadrul Asociației DRIFMAT;
- Prezentarea rezultatelor obținute de INFLPR la competiția Tinere Echipe;
- Prezentarea propunerii de înființare a Compartimentului de Management al Calității;
- Diverse.

Ședința din data de 27.11.2015:

- Prezentarea Raportului Anual Program Nucleu 2015;
- Diverse.

Ședința din data de 18.12.2015:

- Prezentarea Raportului de activitate 2009-2015 privind desfășurarea programului Nucleu LAPLAS PN 0939 nr.39N/20099;
- Prezentarea Situației veniturilor INFLPR din contracte pe anul 2015;
- Diverse.

Membrii Consiliului de Administrație al Institutului Național de Cercetare-Dezvoltare pentru Fizica Laserilor, Plasmei și Radiației au discutat și analizat problemele economico-financiare ale institutului, dispunând în acest sens măsuri privind:

- aprobarea Bugetului de venituri și cheltuieli al INFLPR pentru anul 2015;
- aprobarea Bilanțului contabil al INFLPR pe anul 2014;
- raportul de gestiune al INFLPR;
- situația economico-financiară a INFLPR;



- aprobarea Bilanțului contabil al INFLPR încheiat la dată de 30.06.2015;
- aprobarea Bugetului de Venituri și Cheltuieli rectificat al INFLPR pe anul 2015.

O altă contribuție importantă a Consiliului de Administrație a constituit-o analiza și aprobarea măsurilor referitoare la buna funcționare a institutului, în conformitate cu prevederile legale în vigoare.

Astfel, Consiliului de Administrație a discutat și aprobat în cursul anului 2015 următoarele:

- raportul de activitate al Consiliului de Administrație al INFLPR pentru anul 2014;
- prezentarea propunerilor de proiecte ;
- componentă comisiilor de concurs pentru posturile scoase la concurs;
- regulamente de concurs;
- raportul anual INFLPR – 2014;
- modificarea organigramei și anume introducerea Compartimentului de Managementul Calității
- participarea institutului la înființarea Asociațiilor de tip „cluster tehnologic” CLARA și DRIFMAT
- diverse

Tot în acest sens, membrii Consiliului de Administrație al Institutului Național de Cercetare-Dezvoltare pentru Fizica Laserilor, Plasmei și Radiației au discutat, analizat și propus măsuri privind soluționarea problemelor curente ale institutului: modul de administrare al spațiilor deținute de institut; modul de realizare, respectiv finalizare a investițiilor, etc.

Având în vedere aspectele sus menționate, se poate concluziona faptul că în cursul anului 2015, Consiliul de Administrație al Institutului Național de Cercetare-Dezvoltare pentru Fizica Laserilor, Plasma și Radiație și-a îndeplinit în mod corespunzător atribuțiile stabilite prin Regulamentul de Organizare și Funcționare aprobat prin HG. Nr 1581/2004.



INSTITUTUL NAȚIONAL DE CERCETARE-DEZVOLTARE PENTRU FIZICA LASERILOR, PLASMEI ȘI RADIAȚIEI

Str. ATOMISTILOR, Nr. 409, PO Box MG-36, Magurele, Ilfov, București 077125, ROMANIA

Tel.: +40 21 457-4489 , FAX: + 40 21 457-4243, <http://www.inflpr.ro>

**Anexa 2: CONTRACTE****INFLPR**

Nr. Crt.	Numar contract	Denumire contract	Valoare contract	Sursa de finantare
1	Poz 10 si 11 HG	Instalații de Interes National	943.029,43	Buget de stat
2	39N	LAPLAS NUCLEU	21.943.200,00	Buget de stat
3	Idei 71/2011	Light triggering of drug carrier systems for targeted delivery and controlled release	142.064,00	Buget de stat
4	Idei 13/2011	Current challenges in modeling the generation of hard radiations by relativistic interactions between very intense laser beams and electrons or atoms	23.757,61	Buget de stat
5	Idei 63/2011	Novel laser ablation-assisted technique for pure single- walled carbon nanotube synthesis	180.232,00	Buget de stat
6	Idei 80/2011	Novel approach to nanoscale multi-functional materials, to reduce toxics and bacteria and to manage resources more effeciently	176.802,00	Buget de stat
7	Idei 209/2011	Functionalized flavonoid_ biopolymer nanostructured composites processed for antibacterial activity	189.191,00	Buget de stat
8	parteneriat 107/2012	Platforma senzitiva bogata pe interacții bionimetice pentru detectia rapida a contaminăților din alimente	76.067,00	Buget de stat
9	parteneriat 186/2012	Noi materiale vitroase magneto-optice cu aplicații in optoelectronica	84.146,00	Buget de stat
10	parteneriat 153/2012	Fabricarea de implanturi ortopedice osteoinductive cu structura ierarhica 3D graduala	91.321,00	Buget de stat
11	parteneriat 3/2012	Bio-nanofotonica pe baza de structuri supramoleculare de AND pentru functionalități complet optice integrate	111.769,00	Buget de stat
12	parteneriat 1/2012	Ultrafast laser Facility with Optimized high order harmonics UltraViolet sources	116.477,00	Buget de stat
13	Parteneriat 137/2012	Filme nanocompozite hibride (inorganice-organice) pe baza de hidroxizi dublu stratificați (LDH) cu suprafețe hidrofobice si/sau cu rol de acoperiri protective	126.311,00	Buget de stat
14	parteneriat 17/2012	Nanostructuri bazate pe noi compusi organometalici pentru aplicații in electronica	101.468,00	Buget de stat
15	parteneriat 6/2012	Structuri tridimensionale stimulate electric pentru ingineria țesuturilor	76.101,00	Buget de stat
16	parteneriat 184/2012	Sistem de imaginistica optica multimodala pentru detecția intraoperativă a marginilor pozitive a tumorilor	68.427,00	Buget de stat



17	parteneriat 162/2012	Complex high surface area photoactive nano-materials for environmentally- friendly energy production and organic pollutants degradation	75.492,00	Buget de stat
18	parteneriat 146/2012	Scriere directa cu laserul a materialelor compozite polimeri-grafene	81.946,00	Buget de stat
19	parteneriat 7/2012	"Nanostructuri feromagnetice/antiferomagnetice complexe cu proprietăți magnetice îmbunătățite pentru aplicații în stocarea de date obținute prin depunerea laser secvențială (FANLAS)	166.400,00	Buget de stat
20	parteneriat 138/2012	"Straturi YBa ₂ Cu ₃ O ₇ groase cu parametri îmbunătățiți pentru acoperiri supraconductoare"	65.954,00	Buget de stat
21	parteneriat 85/2012	"Modelarea și simularea activității pompelor de eflux bacteriene prin metode laser avansate"	239.672,00	Buget de stat
22	Idei 304	"Nano-senzori multiparametrici de oxizi metalici obținuți prin tehnologii avansate"	160.272,00	Buget de stat
23	Idei 337	"Studiul proprietăților filmelor subțiri de ZrC pt.aplicații în acoperirea combustibilului nuclear"	159.167,00	Buget de stat
24	proiect STAR 17/2012	"Imagistica Compresivă în domeniul THz și Spectroscopie Hadamard pentru Aplicații Spațiale"	172.357,00	Buget de stat
25	Proiect STAR 33/2012	"Dezvoltarea și integrarea unui pachet de programe pentru accesul la baze de date de foarte mare dimensiune și aplicarea lui în analiza de date"	174.000,00	Buget de stat
26	7RO-FR/2013	"Dinamica de formare a nanostructurilor de suprafață induse cu laserul DYLPSS"	291.200,00	Buget de stat
27	Idei 33/2013	"Investigarea mecanismelor de formare a nanostructurilor în experimente cu rezoluție temporală ultraintalță"	282.143,00	Buget de stat
28	18 RO - Ch/2013	"Materiale perovskitice nanostructurate cu bandă interzisă mică pentru aplicații fotovoltaice și generare de hidrogen prin fotocataliză"	72.657,96	Buget de stat
29	idei 52/2013	"Realizarea tranzistorilor cu filme subțiri, transparente și flexibile din oxizi amorf depuși prin ablație laser"	274.531,00	Buget de stat
30	contract STAR 60/2013	"Știința și tehnologia acoperirilor cu emisivitate ridicată pentru aplicații în radiatoare spațiale"	144.000,00	Buget de stat
31	contract STAR 65/2013	"Efectele radiației asupra oxizilor semiconductori și amorf folosiți pentru electronica pe substrat flexibil"	120.000,00	Buget de stat
32	PD 51/2013	"Măsurarea precisă a calității aerului în zone de mediu poluate"	100.191,00	Buget de stat
33	PD 2/2013	"Studii aprofundate asupra efectelor induse de fascicule de ioni în filmele subțiri de nitruri și carbonitruri ale metalelor de tranziție"	66.256,00	Buget de stat
34	Idei 85/2013	"Procesarea și imobilizarea materialelor nanocompozite pe baza de carbon prin tehnici laser pentru dispozitive optoelectronice de înaltă	225.617,00	Buget de stat



		performanța"		
35	TE 14/2013	"Obținerea de filme subțiri fără plumb de (Ba1_xCax)(Ti1-yzry)O3 cu proprietăți piezoelectrice înalte pentru microelectronica"	200.650,00	Buget de stat
36	TE 16/2013	"Filme subțiri de carbon aderente și dure sintetizate prin depunere laser pulsată pentru protecția la uzură a uneltelor de tăiere și găurire"	157.545,00	Buget de stat
37	parteneriat 38/2014	Acoperiri antireflex pentru laseri de mare putere în pulsuri ultra-scurte	208.215,00	Buget de stat
38	parteneriat 239/2014	Noua generație de implanturi ortopedice bazate pe noi bioaliaje de Ti cu învelisuri biomimetice hibride	84.499,00	Buget de stat
39	parteneriat 34/2014	Aplicarea de tehnici laser pentru fabricarea de biosenzori pe baza de sisteme microfluidice de detecție în timp real	155.156,00	Buget de stat
40	parteneriat 245/2014	Implanturi ortopedice obținute din aliaje multifuncționale tip "Gum"	46.996,00	Buget de stat
41	parteneriat 12/2014	Sistem medical inovativ pentru monitorizarea tensiunilor interne în țesutul tumoral în scopul îmbunătățirii tratamentului oncologic	92.537,00	Buget de stat
42	parteneriat 78/2014	Tratarea apelor reziduale prin procedee de floculare-oxidare mediate de floculanți și catalizatori derivați din nămol roșu	51.263,00	Buget de stat
43	parteneriat 94/2014	Noua generație de sisteme de autocurățare fotocatalitice pentru funcționalizarea textilelor tehnice și acoperiri arhitecturale	60.255,00	Buget de stat
44	parteneriat 266/2014	Cercetări privind corelațiile dintre caracteristicile fizice ale suprafețelor active ale componentelor optice și pragul lor de distrugere în fascicul laser intens	397.212,00	Buget de stat
45	parteneriat 290/2014	Instrument de spectroscopie în domeniul undelor milimetrice (THz) pentru identificarea substanțelor periculoase	105.000,00	Buget de stat
46	Contract 19 RO-FR/2014	"Innovative BIOactive COATings for orthopaedic implants deposited BY new pulsed LASER methods (Biocoat_By_Laser)"	300.762,00	Buget de stat
47	Contract ERA_NET 7-083/2014	"Straturi de carbon dopate cu Ag/Si pentru aplicații biomedicale"	450.000,00	Buget de stat
48	parteneriat 224/2014	"Cercetarea Substituirii Osoase cu materiale biocompozite fabricate prin tehnici specifice metalurgiei pulberilor"	35.021,00	Buget de stat
49	Contract E 12 /2014	Studii preliminare pentru implementarea experimentelor bio-medicale ELI-NP - ELI-BIOMED	129.119,00	Buget de stat
50	Contract F3/2014	Interacțiuni atomice în câmpuri supercritice: investigații teoretice și experimentale pentru FAIR/SPARC-SCAFI	84.149,00	Buget de stat



51	parteneriat 200/2014	"Sistem imagistic pentru diferentierea între leziunile tumorale maligne și benigne bazat pe dualitatea dintre fluorescența hiperspectrală și tomografia optică de difuzie"	160.073,00	Buget de stat
52	parteneriat 72/2014	"Sistem integrat de monitorizare și bioremedierea zonelor contaminate cu metale grele și radionuclizi"	50.561,00	Buget de stat
53	Contract ERA_NET 7-081/2014	"Noi materiale vitroase boro-fosfatice dopate, sub formă de nano-pulberi și filme subțiri nanostructurate, cu proprietăți optice și magnetice înalte, pentru fotonica"	294.750,00	Buget de stat
54	parteneriat 226/2014	"Analiza compoziției oțelului lichid in situ și în timp real prin LIBS și spectrometrie de masă ale aerosolilor și gazelor evacuate în timpul procesului de degazare in vid"	299.993,00	Buget de stat
55	mobilitati 782/2014	Sinteza și funcționalizarea laser de material nanostructurate pe bază de carbon	6.551,00	Buget de stat
56	mobilitati 778/2014	Nanocompozite biomimetice obținute prin biotehnologii laser avansate pentru vindecarea rapidă și regenerarea tesuturilor osoase	9.293,59	Buget de stat
57	parteneriat 213/2014	Implanturi ortopedice obținute din aliaje multifuncționale tip „gumă”	56.440,00	Buget de stat
58	IFA-CEA _03	Efectul radiației asupra Si C: Rolul raportului dintre dimensiunile graunților cristalini și ale coliziunilor în cascadă	196.800,00	Buget de stat
59	TE_24/2015	Biointerfete inteligente de tip osos obținute prin metode laser pentru inducerea unui răspuns osteogenic îmbunătățit al celulelor stem	90.000,00	Buget de stat
60	TE_148/2015	Surface acoustic wave sensor for H2S detection based on sensitive layers with gradual porosity	32.200,00	Buget de stat
61	TE_209/2015	Nanocompozite pe baza de staniu cu conținut de Fe, C și/sau Si sintetizate prin piroliza laser pentru anodi performanți folosiți în bateriile Li-ion	90.000,00	Buget de stat
62	TE_140/2015	Acoperiri hibride pentru implanturi biodegradabile avansate din MG/aliaje din MG cu protecție la coroziune și ecranare antimicrobiană	90.000,00	Buget de stat
63	TE_188/2015	Eliberare de medicamente controlată prin activare externă din sisteme polimerice inteligente	90.000,00	Buget de stat
64	TE_186/2015	Sinteza de biblioteci compoziționale de filme subțiri prin procedee laser combinatoriale pentru selectarea de agenți cu tinta	90.000,00	Buget de stat
65	TE_187/2015	Asamblarea cu ajutorul laserului a unor dispozitive „lab-on-a-chip” miniaturizate pentru ghidare, capturare și analiză celulară	90.000,00	Buget de stat
66	TE_108/2015	Straturi subțiri de Hidroxiapatita biologică cu aderență foarte mare sintetizate prin tehnici de depunere laser pulsate pentru aplicații medicale	90.000,00	Buget de stat



67	TE_271/2015	Depunerea de filme subțiri hibride tip moleculă oaspete fotofuncțională intercalate în matrice gazdă de hihroxizi dublu stratificați	90.000,00	Buget de stat
68	TE_270/2015	Sistem de detecție a aditivului alimentar nociv: glutamat monosodic	90.000,00	Buget de stat
69	TE_25/2015	Fabricarea de rețele flexibile de micro-dispozitive electronice prin scriere directă cu laserul pentru măsurarea presiunii în timp real	50.600,00	Buget de stat
70	proiect STAR 2/2012	STAR - Technology	50.000,00	Buget de stat
71	parteneriat 58/2012	Sistem Laser pentru Aprinderea Motoarelor de Automobile	250.782,00	Buget de stat
72	Idei 82/2012	Procese de conversie superioară infraroșu-infraroșu și infraroșu-ultraviolet în fosfori dopați cu pământuri rare	153.020,00	Buget de stat
73	Idei 35/2011	Procese de conversie cuantică a excitației în surse fotonice cu prospect pentru producere de energie sustenabilă	139.150,00	Buget de stat
74	Idei 36/2011	Laseri de Tip Ghid de Unda obținuți prin Tehnica Scrierii Directe cu Pulsuri, Laser cu durată de ordinul Femtosecundelor	151.386,00	Buget de stat
75	Idei 37/2011	Pulsuri TeraHertzi ultraintense obținute în plasmă generată de pulsuri laser ultracurte, de mare intensitate	111.930,00	Buget de stat
76	Idei 309/2011	Temporally and spectrally resolved luminescence of lanthanide's doped tetravalent nano-oxides: A unitary approach	131.632,00	Buget de stat
77	contract 184EU/2012	cofinanțare LASERLAB	58.682,05	Buget de stat
78	Parteneriat 10/2013	Noi cristale de înaltă performanță pentru dezvoltarea de surse laser de mare putere acordabile în domeniul vizibil bazate pe procese optice nelineare	146.290,00	Buget de stat
79	TE 208/2014	Materiale monocristaline și ceramic policristaline alternative pentru laseri în vizibil	30.000,00	Buget de stat
80	IDEI 196/2011	Filme subțiri de oxid de zinc multifuncționale	187.134,00	Buget de stat
81	parteneriat 159/2012	High efficiency electrospinning.	53.356,00	Buget de stat
82	parteneriat 141/2014	Utilizarea Plasmelor reci pulsate la presiune atmosferică pentru distrugerea Microorganismelor de pe suprafața Oualor de consum, în vederea creșterii siguranței alimentare.	239.287,00	Buget de stat
83	parteneriat 301/2014	Sistem complex de scanare cu raze X multiparametric pentru detecția materialelor periculoase din bagaje, cu aplicații în domeniul Securității	51.529,00	Buget de stat



84	Contract IFA-CEA C4-01/2014	Caracterizarea și modelarea cablurilor supraconductoare: examinarea 3D de înaltă acuratețe a cablurilor supraconductoare prin micro-tomografie și îmbunătățirea modelelor multifizice (electromagnetice, termo-hidraulice și mecanice) ale acestora./ TomoModelSupra	150.000,00	Buget de stat
85	Contract IFA-CEA C4-07/2014	Cresterea duratei de viață a placilor din CFC, grafit și CuCrZr acoperite cu W pentru utilizarea de lungă durată la interfata cu plasma de fuziune pentru proiectul WEST / PFCCOAT	150.000,00	Buget de stat
86	Parteneriat Ctr.64/2012	Eco-friendly biopolymer-based polyelectrolytes prepared by electron beam-induced grafting to improve the quality parameters of surface and waste waters	97.917,00	Buget de stat
87	Star 100/2013	"Tehnologie pentru manipularea și îndepărtarea prafului pentru misiunile pe Marte"	100.000,00	Buget de stat
88	Contract ELI E06/2014	Accelerarea de electroni în plasma produsă de laseri de putere la GeV-LAPLACE	261.976,00	Buget de stat
89	Contract 0319/2014	Procese ecologice de extracție a compușilor valoroși din plante	142.017,00	Buget de stat
90	parteneriat 8/2012	Sensor systems for secure operation of critical installations	125.506,00	Buget de stat
91	parteneriat 223/2012	Inquiry based education in science and technology	117.250,00	Buget de stat
92	Contract STAR 67/2013	Evaluation of Components for Space Applications	216.278,00	Buget de stat
93	Contract IFA 340/2014	Reteaua Centrelor de Știință	96.785,00	Buget de stat
94	Idei 90/2011	Electron acceleration and polaritonic transport by laser-plasma interaction in new capillary configuration	146.251,00	Buget de stat
95	Idei 4/2011	Giga and tera-watt laser interaction with carbon, tungsten and beryllium films	193.044,00	Buget de stat
96	Idei 322/2011	Evaluation of an original alternative to treat osteomyelitis using an animal experimental model	130.208,00	Buget de stat
97	parteneriat 26/2012	New chemical systems based on nanocrystalline frameworks and porous architectures for intermediate temperature solid oxide fuel cells	43.124,00	Buget de stat
98	parteneriat 195/2012	Metoda și sistem inovativ pentru detectarea urmelor de droguri prin spectroscopie de masă asistată plasma-laser	109.285,00	Buget de stat
99	parteneriat 143/2012	Caracterizarea prin tehnici IBA și alte tehnici avansate a hidrogenului și a altor elemente ușoare în filme subțiri de materiale utilizate în industria nucleară	77.451,00	Buget de stat
100	parteneriat 160/2012	Nanocompozite complexe pe bază de Carbon și titan pentru aplicații industriale	60.880,00	Buget de stat



101	Contract PD 44/2013	Comparison of performances of dielectric barrier and bare electrodes atmospheric pressure plasma jet discharges	96.073,00	Buget de stat
103	contract STAR 53/2013	Accelerarea Laser in Plasmă in Particule in vederea efectuării de Teste privind expunerea la Radiații- LEOPARD	800.000,00	Buget de stat
104	ctr. 633311/2015	Noaptea Cercetătorilor 2015	28.230,00	Buget de stat
105	Parteneriat 140/2012	Developing new graphene-polymer composites biomaterials for scaffold fabrication with applicability in bone repair by coupling multiscale molecular modelling and experiments	31.750,00	Buget de stat
106	parteneriat 220/2014	Acumulator redox cu capacitate de incarcare rapidă, ca sursa principală de energie pentru autovehiculele electrice	54.000,00	Buget de stat
107	Contract IFA CEA C4-13/2014	Mobilizarea și colectarea prafului cu laser și plasmă / DUSTCO	150.000,00	Buget de stat
108	Contract E 03/2014	Extreme Light Induced Ablation Plasma Jet and Nanopatterning	80.314,00	Buget de stat
109	Contract Dubna		14.182,94	Buget de stat
110	parteneriat 253/2014	Noi acoperiri nanostructurale multifunctionale pentru implanturi ortopedice	115.000,00	Buget de stat
111	parteneriat 80/2014	Modul ecologic independent energetic pentru ventilare si iluminare cu proprietăți antibacteriene utilizat pentru acoperirea pereților exteriori	110.000,00	Buget de stat
112	TE 269/2015	Nano-structuri multistrat obtinute folosind o plasma anodică pentru reflectivitate de raze X	69.000,00	Buget de stat
113	TE 112/2015	O metoda nouă de sinteză a particulelor metalice la presiune atmosferică - o abordare cu plasmă rece	60.000,00	Buget de stat
114	Contract ELI-NP		699.887,79	Buget de stat
115	Euratom WPPFC_P	Participarea Romaniei la Eurofusion WPPFC și cercetări complementare	392.385,00	Buget de stat
116	Euratom WPPFC -C	Participarea Romaniei la Eurofusion WPPFC și cercetări complementare	346.296,00	Buget de stat
117	Euratom WPCD-P	Participarea Romaniei la Eurofusion WPCD și cercetări complementare	164.734,00	Buget de stat
118	Euratom WPCD-C	Participarea Romaniei la Eurofusion WPCD și cercetări complementare	128.170,00	Buget de stat
119	Euratom WPMST1-P	Participarea Romaniei la Eurofusion WPMST1 și cercetări complementare	45.942,00	Buget de stat
120	Euratom WPMST1-C	Participarea Romaniei la Eurofusion WPMST1 și cercetări complementare	45.654,00	Buget de stat
121	Euratom WPJET1-P	Participarea Romaniei la Eurofusion WPJET1 și cercetări complementare	24.915,00	Buget de stat



122	Euratom WPJET1-C	Participarea Romaniei la Eurofusion WPJET1 și cercetări complementare	138.336,0	Buget de stat
123	Euratom WPJET2-P	Participarea Romaniei la Eurofusion WPJET2 și cercetări complementare	415.310,00	Buget de stat
124	Euratom WPJET2-C	Participarea Romaniei la Eurofusion WPJET2 și cercetări complementare	240.585,00	Buget de stat
125	Euratom WPJET 4.1-P	Participarea Romaniei la Eurofusion WPJET4-GSU și cercetări complementare	85.600,00	Buget de stat
126	Euratom WPJET4.1-C	Participarea Romaniei la Eurofusion WPJET4-GSU și cercetări complementare	165.960,00	Buget de stat
127	Euratom WPJET4.2 P	Participarea Romaniei la Eurofusion WPJET4-LRM și cercetări complementare	17.045,00	Buget de stat
128	Euratom WPMAT -C	Participarea Romaniei la Eurofusion WPMAT și cercetări complementare	46.345,00	Buget de stat
129	Euratom WPMAT -C	Participarea Romaniei la Eurofusion WPMAT și cercetări complementare	86.710,00	Buget de stat
130	Euratom WPMAG-P	Participarea Romaniei la Eurofusion WPMAG și cercetări complementare	82.236,00	Buget de stat
131	Euratom WPMAG-C	Participarea Romaniei la Eurofusion WPMAG și cercetări complementare	85.966,00	Buget de stat
132	Euratom WPENR-C	Participarea Romaniei la Eurofusion WPENR și cercetări complementare	487.141,00	Buget de stat
133	Euratom WPED-P	Participarea Romaniei la Eurofusion WPED și cercetări complementare	142.227,00	Buget de stat
134	FP 7	18RO-Ch	163.998,42	Venitu ri realizate prin contracte de cercetare dezvolt are internatio nale finantate din fonduri publice
135	FP 7	LASERLAB III	285.515,40	
136	FP 7	Contract ESA	87.170,40	
137	FP 7	Contract ITALIA	53.104,16	
138	FP 7	Contract Franta	4.779,13	
139	FP 7	Contract Anglia	4.403,92	
140	FP 7	Contract Germania	26.497,80	
141	FP 7	Garching	25.000,00	
142	FP 7	Korea	39.380,25	
143	FP 7	CEYS	57.618,38	
144	FP 7	Grant Instem	37.997,39	
145	FP 7	Grant Sustain	31.573,38	
146	FP 7	Contract Grecia	10.875,55	



147	FP 7	Contract Franta	13.539,50	
148	FP 7	Contract Germania	6.231,12	
149	FP 7	EURATOM COFINANTARE	1.366.165,00	
150	ALTE VENITURI ECONOMICE	ECONOMICE	70.391,26	
TOTAL CONTRACTE INFLPR			43.917.168,43	

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Nr. Crt	Nr. Contract	Denumire proiect	Valoare
1	CONTR 1/2012	Participarea la programele științifice ale ESA	100.000,00
2	CONTR 2/2012	Participarea la programele de tehnologii ale ESA	30.000,00
3	CONTR 5/2012	Knowledge Management Infrastructure-KAMI	30.000,00
4	CONTR 8/2012	Fizică Fundamentală. Oportunități Pentru Proiecte Spațiale Românești	93.350,00
5	CONTR 11/2012	Calibrarea magnetometrului flux gate Cluster si exploatarea științifică a datelor (TUNED)	130.000,00
6	CONTR 12/2012	Dihotomia radio în galaxiile cu nucleu activ și în sistemele binare de radiație X	20.000,00
7	CONTR 20/2012	Electrodinamică aurorală cu Swarm (ALEOS)	200.000,00
8	CONTR 29/2012	Contributii la misiunea EUCLID	55.000,00
9	CONTR 45/2012	Validation of Swarm L-1b data using multi-point gradient estimation techniques (VALS)	210.000,00
10	CONTR 56/2013	Antrenamentul asistat de calculator cu feedback informațional pentru contramăsuri la zborul spațial cu echipaj uman	920.000,00
11	CONTR 59/2013	Centrul român de competență în tehnologii pentru nanosateliți ROST-CC	1.050.000,00
12	CONTR 60/2013	Știința și tehnologia straturilor de acoperire cu emisivitate foarte mare pentru aplicații în fabricarea radiatoarelor termice utilizate în spațiu extraterestru	60.000,00
13	CONTR 61/2013	Detectori cu diamant pentru experimente de spectrometrie de particule în spațiu (DIADEMS)	250.000,00



14	CONTR 64/2013	Testarea in fond de protoni si particule alpha a unor structuri fotovoltaice noi folosite in aplicații spațiale	63.000,00
15	CONTR 65/2013	Radiation effects on amorphous semiconductor oxides used for flexible and transparent microelectronics	76.000,00
16	CONTR 85/2013	Materiale dielectrice avansate pentru aplicații și tehnologii spațiale in terahertzi	102.000,00
17	CONTR 90/2013	Generator de Plasma Metalica pentru Aplicații Spațiale	521.000,00
18	CONTR 91/2013	Simulator pentru fluxuri de date la bord.	450.000,00
19	CONTR 102/2013	Calibrarea in-flight si imbunatațirea calității datelor HIA/Cluster in vederea exploatarei științifice	220.000,00
20	CONTR 83/2013	Studiu pilot al razelor cosmice de energii ultra inalte prin intermediu interacțiilor lor spațiale și atmosferice .	203.500,00
21	CONTR 103/2013	Data mining în serii temporale de imagini satelitare folosind extragere de motive secvențiale sub constrânger.	400.000,00
22	CONTR 200/2012 PARTENERIATE-	Monitorizarea precisă a stabilității infrastructurii folosind interferometria radar cu apertura multipla combinata cu tehnici de extragere de motive spatio-temporale (DGI-SAR)	60.000,00
23	CONTR PARTENERIATE19 6/2012 -ASR	Platforma modulara de tip nanosatelit pentru observari si măsurari pe orbita terestră joasa-MOSON	245.000,00
24	CONTR PARTENERIATE- 290/2014	Instrument de spectroscopie in domeniul undelor milimetrice (THz)pentru identificarea substanțelor periculoase	125.382,00
25	CONTR PARTENERIATE- 279/2014	Sonda Kelvin cu Potențial Armonic pentru Aplicații Spațiale-KEPRO	405.135,00
26	CONTRACT 39 N	LAPLAS 3	4.104.660,00
27	Proiect nr: 02-1- 1087-2009/2017	„ Study of peripheral collisions of ^{56}Fe at 1 - 3.7 A GeV in nuclear emulsion”	8.327,30
28	Proiect nr: 02-1- 1107-2011/2016	„ Investigation of the radioactive hardness of microelectronic devices in the fields of neutrons and high energy heavy ions”	4.163,66
29	Proiect nr: 02- 1-1107-	„ Analyze of the possibility to use ion beams in the deeply electronuclear subcritical systems for	6.245,48



	2011/2016	energy production"	
30	Proiect nr: 02-2-1125-2015/2017	„ Study of atmospheric phenomena influences on the EAS fluorescent signals on KLYPVE/TUS space experiments"	6.245,48
31	Proiect nr: 02-2-1125-2015/2017	Development of ground- based system for the in-orbit calibration of the TUS telescope detector aboard the Lomonosov satellite"	6.245,48
32	Proiect nr: 02-2-1125-2015/2017	„Studies regarding the calibration of the gamma telescopes in the TAIGA experiment"	4.163,66
33	Proiect nr: 03-4-1104-2011/2016	„Cross sections of nuclear reactions induced by neutrons on ^{36}Cl with applications in astrophysics	6.245,48
34	Proiect nr: 03-4-1104-2011/2016,,	Hauser-Feshbach model calculation of the (γ, n) cross sections for some s- process nuclei"	8.327,30
35	Proiect nr: 03-4-1104-2011/2016,,	Computer modeling of experiments for new neutron data at JINR basic facilities"	8.327,30
36	Proiect nr: 02-1-1087-2009/2017,	„ Study of peripheral collisions of ^{56}Fe at 1 - 3.7 A GeV in nuclear emulsion"	4.163,65
37	Proiect nr: 02-1-1107-2011/2016	„ Investigation of the radioactive hardness of microelectronic devices in the fields of neutrons and high energy heavy ions"	4.163,65
38	Proiect nr: 02-1-1107-2011/2016	Analyze of the possibility to use ion beams in the deeply electronuclear subcritical systems for energy production"	4.163,62
39	CONTR-CAPACITATI 229//2013	Solar system plasma Turbulence: Observations, Intermittency and Multifractals.	126.675,00
40	CONTR-CAPACITATI 741/2014	Unde ULF in Magnetosfera	9.198,33
41	CONTR- IDEI 32 /2011	Particule exotice super masive in telescoape pentru neutrini	193.391,00
42	CONTR- IDEI 67/2011	Cuplaj Magnetosfera-Ionosfera in Regiunea Aurorală	165.821,00
43	CONTR- IDEI 69/2011	Studiul proceselor difractive in interacții produse in emulsia nucleara de ioni accelerate la 1-4 GeV și aplicatii in astrofizica	212.129,00
44	CONTR- IDEI 82/2013	Studiul undelor gravitaționale primordial cu anisotropia CMB.	227.868,00
45	CONTR- IDEI 83	Turbulenta,intermitenta si transfer de energie in	313.958,00



	/2013	vantul solar și magnetosferele planetare.	
46	CONTR- RU TE 8/2013	Excitarea,propagarea și disiparea undelor ULF in magnetosferă(ERODIUM)	200.000,00
47	CONTR- RU TE 9/2013	Proprietati termodinamice si functii de corelatie ale gazelor atomice reci in sisteme cu dimensionalitate redusa.	250.798,00
48	CONTR-RU PD 12/2013	Estimarea parametrilor unei discontinuitati non-planare din plasmă spațială:aplicație la magnetopauza terestră.	75.000,00
49	CONTR RU TE 356/2015	Studiu multi-scala al turbulentei in plasmă astrofizice	90.000,00
50	CONTR- JETALICE/2012	Analize detaliate ale jeturilor in ciocnirile p-p si Pb-Pb la experimentul Alice"-JETALICE	613.965,52
51	CONTR- 8/2012	Contributia națională la dezvoltarea gridului de calcul LCG pentru fizica particulelor elementare(CONDEGRID)	155.275,70
52	INSTALATII-18 II GRID	Instalații grid de Interes Național	164.450,00
53	ROTALK SCIENCE	RoTalkScience	22.020,88
54	CAPACITATI-F03	Interacțiuni atomice in campuri super-critice :investigatii teoretice si experimentale pentru FAIR/SPARC	26.296,00
55	Contract INCDFM 2944/27.1.2015	CONTRACT ECONOMIC	16.129,03
TOTAL CONTRACTE NAȚIONALE ISS			13.057.784,49

Anexa 3: Listă lucrări științifice și tehnice în reviste de specialitate cotate ISI

Nr. Crt.	Titlu	Revista, vol., pg., anul	Autori	Factor de impact
1.	Judd-Ofelt analysis of Tm^{3+} in $\text{La}_3\text{Ga}_{5.5}\text{Ta}_{0.5}\text{O}_{14}$ ceramic with granular structure	J. Lumin. 157 , 35-38 (2015)	S. Georgescu, O. Toma, C. Matei, A.M. Voiculescu, and A. Ștefan	2.719
2.	Scaling and passively Q-switch operation of a Nd:YAG laser pumped laterally through a YAG prism	Opt. & Laser Techn. 67 , 164-168 (2015)	T. Dascalu, G. Salamu, O. Sandu, M. Dinca, and N. Pavel	1.647
3.	NIR to Vis - NIR up - conversion and X-ray excited emission of Er doped high Z BiOCl	Opt. Mater. Express 5 (5), 951-962 (2015)	D. Avram, B. Cojocaru, M. Florea, V. Teodorescu, I. Tiseanu, and C. Tiseanu	2.844
4.	Efficient laser operation at $1.06 \mu\text{m}$ in co-doped Lu^{3+} , $\text{Nd}^{3+}:\text{GdCa}_4\text{O}(\text{BO}_3)_3$ single crystal	Opt. Mat. 42 , 376-380 (2015)	C.A. Brandus, L. Gheorghe, and T. Dascalu	1.981
5.	Optical properties of Sm^{3+} doped strontium hexa-aluminate single crystals	J. Alloys & Comp. 622 , 296-302 (2015)	C. Gheorghe, L. Gheorghe, A. Achim, S. Hau, R. D. Avram, and G. Stanciu	2.999
6.	Judd-Ofelt analysis of ceramic $\text{La}_3\text{Ga}_{5.5}\text{Ta}_{0.5}\text{O}_{14}$ doped with Er^{3+}	J. Lumin. 162 , 168-173 (2015)	S. Georgescu, A. Ștefan, A. M. Voiculescu, and O. Toma	2.719
7.	Judd-Ofelt analysis of Ho^{3+} doped in ceramic CaSc_2O_4	J. Lumin. 162 , 174-179 (2015)	S. Georgescu, A. Ștefan, O. Toma, and A. M. Voiculescu	2.719
8.	Blue light production by type-I non-critical phase matching second-harmonic generation in $\text{La}(\text{Ca}_{1-x}\text{Sr}_x)_4\text{O}(\text{BO}_3)_3$ single crystals	CrystEngComm. 17 , 4098-4101 (2015)	A. Achim, L. Gheorghe, F. Voicu, and G. Stanciu	4.034
9.	Time delay and excitation mode induced tunable red/near-infrared to green emission ratio of Er doped BiOCl	J. Phys. D: Appl. Phys. 48 (35), 355501 (2015)	D. Avram, M. Florea, I. Tiseanu, and C. Tiseanu	2.721
10.	Toward a Unified Description of Luminescence – Local Structure Correlation in Ln Doped CeO_2 Nanoparticles: Roles of Ln Ionic Radius, Ln Concentration and Oxygen Vacancies	J. Phys. Chem. C 119 (28), 16303-16313 (2015)	D. Avram, M. Sanchez-Dominguez, B. Cojocaru, M. Florea, V. Parvulescu, and C. Tiseanu	4.772
11.	Structure and temperature	Opt. Mat. 47 ,	A. Lupei, V. Lupei, S.	1.981



	effects on Nd ³⁺ spectra in polycrystalline mixed scandium aluminum garnets Y ₃ Sc _x Al _{5-x} O ₁₂	465-472 (2015)	Hau, C. Gheorghe, and F. Voicu	
12.	Pure and almost pure NIR emission of Tm and Tm, Yb - CeO ₂ under UV, X - ray and NIR up - conversion excitation: Key roles of level selective antenna sensitization and charge - compensation	Phys. Chem. Chem. Phys. 17 , 30988-30992 (2015)	D. Avram, A. Urda, B. Cojocaru, I. Tiseanu, M. Florea, and C. Tiseanu	4.493
13.	Local structure in CeO ₂ and CeO ₂ - ZrO ₂ nanoparticles probed by Eu luminescence	Catal. Today, 253 , 33-39 (2015)	V. I. Parvulescu and C. Tiseanu	3.893
14.	Judd-Ofelt analysis of Tm ³⁺ doped in CaSc ₂ O ₄ ceramic samples	J. Lumin. 166 , 130-136 (2015)	S. Georgescu, A. Ștefan, A.M. Voiculescu, and O. Toma	2.719
15.	Judd-Ofelt and energy-transfer analysis of Er ³⁺ doped in CaSc ₂ O ₄ ceramic samples	J. Lumin. 167 , 186-192 (2015)	S. Georgescu, A. Ștefan, and O. Toma	2.719
16.	Synthesis and characterization of La ₃ Ga _{5.5} Ta _{0.5} O ₁₄ doped with holmium and ytterbium	Rom. J. Phys. 60 (3-4), 495-501 (2015)	A.M. Voiculescu, S. Georgescu, C. Matei, A. Ștefan, O. Toma	0.924
17.	In vitro human serum albumin glycation monitored by Terahertz spectroscopy	Opt. Quantum. Electron. 47 (4), 961-973 (2015)	M. Mernea, A. Ionescu, I. Vasile, C. Nica, G. Stoian, T. Dascalu, and D. F. Mihailescu	0.987
18.	Synthesis of calcium doped strontium barium niobate ceramic samples	JOAM - Rapid Communication 9 (5-6), 720-723, (2015)	G. Stanciu, A. Achim, N. D. Scarisoareanu, V. Ion, R. Birjega, E. Andronescu, and M. Dinescu	0.394
19.	Characteristics of 5 mol% Ce ³⁺ -doped barium titanate nanowires prepared by a combined route involving sol-gel chemistry and polycarbonate membrane-templated, process	J Nanopart Res. 17 (11), art. 434 (2015).	C. A. Vasilescu, L. Trupina, B. S. Vasile, R. Trusca, M. Cernea, and A. C. Ianculescu	2.184
20.	Formation mechanism and characteristics of lanthanum-doped BaTiO ₃ powders and ceramics prepared by the sol-gel process	Materials Characterization 106 , 195-207 (Aug. 2015).	A. C. Ianculescu, C. A. Vasilescu, M. Crisan, M. Rsileanu, B.S. Vasile, M. Cslugaru, D. Crisan, N. Dragan, L. Curecheriu, and L. Mitoșeriu	1.845
21.	Ignition of an automobile engine by high-peak power	Opt. Express 23 (26), 33028-33037	N. Pavel, T. Dascalu, G. Salamu, M. Dinca, N.	3.488



	Nd:YAG/Cr ⁴⁺ :YAG laser-spark devices	(2015).	Boicea, and A. Birtas	
22.	High-intensity THz pulses application to protein conformational changes	Rom. Rep. Physics 67 (4),1251–1260 (2015).	O. Grigore, O. Calborean, G. Cojocaru, R. Ungureanu, M. Mernea, M. P. Dinca, S. Avram, D.F. Mihailescu, and T. Dascalu	1.517
23.	Contribution to the theoretical investigation of electron interaction with carbon atoms in the divertor and edge plasma regions,	Romanian Reports in Physics, 67(3), 1087-1098, 2015	V Stancalie	1.517
24.	A quantitative study of the forbidden and intercombination transitions arising from the Li-like Al autoionizing levels	Canadian Journal of Physics, 93(11): 1413-1419, 10.1139/cjp-2015-0127	C Iorga, V Stancalie,	0.964
25.	Static and dynamic polarizability for C2+ in Rydberg states,	AIP Advances 5,077186	V. Stancalie,	1.524
26.	Theoretical investigation of inner-shell photoionization x-ray lasing	Romanian Rep Phys, 67(4),1261-1270,2015	V. Stancalie, C Iorga, V Pais,	1.517
27.	Lasing in DNA-CTMA doped with Rhodamine 610 in butanol	Physical Chemistry Chemical Physics, 17, 13104-13111 (2015)	T. Bazaru Rujoiu, A. Petris, V. I. Vlad, I. Rau, A.-M. Manea, F. Kajzar	4.493
28.	Numerical analysis of light propagation in self-induced waveguides	Proceedings of the Romanian Academy Series A 16 (3), 437-443 (2015)	S. T. Popescu, A. Petris, V. I. Vlad	1.658
29.	Interferometric method for the study of spatial phase modulation induced by light in dye-doped DNA complexes	Romanian Reports in Physics, 67 (4) (2015)	A. Petris, P. Gheorghe, V. I. Vlad, I. Rau, F. Kajzar	1.517
30.	Temporal evolution of the laser recording of gratings in DNA-CTMA-Rh610 films	Romanian Reports in Physics, 67 (4) (2015)	P. Gheorghe, A. Petris, V. I. Vlad, I. Rau, F. Kajzar, A. M. Manea	1.517



31.	Enhanced Sensitive Love Wave Surface Acoustic Wave Sensor Designed for Immunoassay Formats	Sensors, 15, 10511-10525, (2015)	M. Puiu, A. Gurban, L. Rotariu, S. Brajnicov, C. Viespe, C. Bala	2.048
32.	Silicon-based quantum dots induce inflammation in human lung cells and disrupt extracellular matrix homeostasis	FEBS J, 282, 2914-2929 (2015)	Stan M S, Sima Cornelia, Cinteza O, Dinischiotu A	4.001
33.	Complex responses to Si quantum dots accumulation in carp liver tissue: beyond oxidative stress	Chem-Biol Interact, 239, 56-66 (2015)	Serban A, Stanca L, Sima Cornelia, Staicu A, Zarnescu O, Dinischiotu A,	2.577
34.	Magnetite nanoparticles induced adaptive mechanisms counteract cell death in human pulmonary fibroblasts	Toxicol. In Vitro, 29, 1492-1502 (2015)	Radu M, Dinu D, Sima Cornelia, Burlacu R, Hermenean A, Ardelean A, Dinischiotu A	2.903
35.	Study of laser welding of brachytherapy capsules by X ray microtomography	Optoelectron Adv Mat 9, 1006-1009 (2015)	Sima Cornelia, Grigoriu C, Nicolae I, Tiseanu I, Craciunescu T, Viespe C	0.394
36.	DC Magnetization Relaxation and the AC Susceptibility of YBCO Films with Strong Pinning	Journal of Superconductivity and Novel Magnetism 28, 361-365 (2015)	Miu, L ; Mele, P ; Ivan, I ; Ionescu, AM ; Miu, D	0.702
37.	Ge-Added MgB ₂ Superconductor Obtained by Ex Situ Spark Plasma Sintering	Journal of Superconductivity and Novel Magnetism 28, 531-534 (2015)	Batalu, D ; Aldica, G; Burdusel, M ; Popa, S ; Enculescu, M ; Pasuk, I; Miu, D ; Badica, P	0.702
38.	Out of plane superferromagnetic behavior of quasi two-dimensional Fe/Al ₂ O ₃ multilayer nanocomposites	Journal of Applied Physics, 117, 074303-1 - 074303-4 (2015)	Dana Miu, S.I. Jinga, B. Vasile, L. Miu	2.210
39.	Behavior of the second magnetization peak in La _{2-x} Sr _x CuO ₄ single crystals upon entering the doping domain of static stripe disorder	Physica C 519, 79-84, (2015)	L. Miu, A.M. Ionescu, I. Ivan, D. Miu, T. Adachi, K. Omori, Y. Koike	0.942
40.	Spectroscopic analysis of surgical smoke produced in vitro by laser vaporization of animal tissues in a closed	Romanian Reports in Physics, Vol. 67, No. 3, P. 954-965, 2015.	M. Petrus, A.M. Bratu, M. Patachia, D.C. Dumitras	1.517



	gaseous environment			
41.	Quantitative Analysis of Laser Surgical Smoke: Targeted Study on Six Toxic Compounds	Rom. J. of Physics, vol. 60, no.1-2, P. 215- 227, 2015	A.M. Bratu, M. Petrus, M. Patachia, C. Matei, C. Popa, S. Banita, D.C. Dumitras	0.924
42.	Photoacoustic measurements of the CO ₂ absorption coefficients within infrared region of CO ₂ laser spectrum	Rom. J. of Physics, vol. 60, no.7-8, P. 1121-1131, 2015	I. Ivascu, C. Matei, M. Patachia, A.M. Bratu, D.C. Dumitras	0.924
43.	Laser spectroscopy method for non-invasive analysis of breath in pulmonary disease	Romanian Reports in Physics, vol 67, pp. 1545-1557, No. 4, 2015.	M. Petrus, A.M. Bratu, D. Serbanescu, C. Popa	1.517
44.	IR spectroscopy study of the influence of inhaled vapors/smoke produced by cigarettes at active smokers	Journal of Biomedical Optics, Vol. 20, no. 5, P. 051003-1 - 051003-5 [DOI:10.1117/1.JBO.20.5.051003] (May 2015)	C.Popa	2.859
45.	Ammonia and ethylene biomarkers in the respiration of the people with schizophrenia using photoacoustic spectroscopy	Journal of Biomedical Optics Vol. 20, no. 5, 057006 - 057006-8, [DOI: 10.1117/1.JBO.20.5.057006], (May 2015).	C. Popa, M. Petrus, A. Bratu	2.859
46.	CO ₂ laser-photoacoustic study of exhaled breath produced by electronic vs. traditional cigarettes	Rom. Rep. Phys. Vol. 67, No. 3, pp. 946-953, (2015)	C. Popa, S. Băniță, m. Pațachia, C. Matei, A. M. Bratu, M. Petruș, D. C. Dumitraș	1.517
47.	Improvement of a Photoacoustic Technique for the Analysis of Non-Organic Bananas During Ripening Process	Rom. J. Phys., Vol. 60, No. 7-8, pp 1132-1138, (2015)	C. Popa, D. C. Dumitraș, M. Pațachia and Ș. Băniță	0.924
48.	Photoacoustic spectroscopy for non-invasive analysis of human respiration	Rom. Rep. Phys. Vol. 67, No. 4, pp. 1537-1544, (2015)	C. Popa, M. Petrus, A. Bratu	1.517
49.	Detection of ethylene by	Rom. Rep. Phys.	C. Popa	1.517

	infrared spectroscopy in mental disorders	Vol. 67, No. 4, pp. 1565-1569, (2015)		
50.	CW Diffuse Optical Tomography system tested on phantoms and animal tissues	Rom. Rep. Phys., Vol. 67, No. 2, pp. 412-422 (2015)	M. Pațachia, Ș. Băniță, C. Popa and D. C. Dumitraș	1.517
51.	Dimerization and thiol sensitivity of the salicylic acid binding thimet oligopeptidases TOP1 and TOP2 define their functions in redox-sensitive cellular pathways	Front. Plant Sci. 6:327. 2015 doi: 10.3389/fpls.2015.00327	Westlake TJ, Ricci WA, Popescu GV and Popescu SC	3.9
52.	"Highly magnetic Fe ₂ O ₃ nanoparticles synthesized by laser pyrolysis used for biological and heat transfer applications"	Appl. Surf. Sci. 336 (2015) 297-303	F. Dumitrache, I. Morjan, C. Fleaca, A. Badoi, G. Manda, S. Pop, D. Marta, G. Huminic, A. Huminic, L. Vekas, O. Marinica, C. Luculescu, A.-M. Niculescu	2.711
53.	"Metallic tin-based nanoparticles synthesis by laser pyrolysis: parametric studies focused on the decreasing of the crystallite size"	Appl. Surf. Sci. 336 (2015) 290-296	E. Dutu, F. Dumitrache, C. T. Fleaca, I. Morjan, L. Gavrilă-Florescu, I.P. Morjan, I. Sandu, M. Scarisoreanu, C. Luculescu, A.- M. Niculescu, E. Vasile	2.711
54.	"Synthesis and optical properties of TiO ₂ -based magnetic nanocomposites"	Appl. Surf. Sci. 336 (2015) 335-342	M. Scarisoreanu, I. Morjan, C.-T. Fleaca, I.P. Morjan, A.-M. Niculescu, E. Dutu, A. Badoi, R. Birjega, C. Luculescu, E. Vasile, V. Danciu, G. Filoti	2.711
55.	Laser oxidative pyrolysis synthesis and annealing of TiO ₂ nanoparticles embedded in carbon-silica shells/matrix.	Appl. Surf. Sci., 336, (2015) 226-233	Fleaca C. T., Scarisoreanu M., Morjan I., Luculescu C., Niculescu A. –M., Badoi A., Vasile, E., Kovacs G.	2.711
56.	"Sulfidized Fe-C nanocomposite powders produced by one-step laser pyrolysis technique"	Optoelect. Adv. Mater. Rapid Commun., 9 (2015) 933-936	C. Fleaca, I. Morjan, F. Dumitrache, A.-M. Niculescu, A. Badoi, C. Luculescu, E. Vasile, G. Prodan, L. Vekas	0.394
57.	"Thermal conductivity, viscosity and surface tension of nanofluids based on FeC"	Powder Technol. 284 (2015) 78-84	A. Huminic, G. Huminic, C. Fleaca, F. Dumitrache, I. Morjan	2.349



	nanoparticles"			
58.	"Synthesis and characterization of Polyaniline-Fe@C magnetic nanocomposite powder"	Appl. Surf. Sci. , acceptat 2015	C. T. Fleaca, F. Dumitrache, I. Morjan, A.-M. Niculescu, I. Sandu, A.G. Ilie, I. Stamatina, A.-M. Iordache, E. Vasile, G. Prodan	2.711
59.	"The influence of 1,3-diaminopropane in functional groups generation on iron oxide nanoparticles surfaces synthesized by laser pyrolysis"	Optoelect. Adv. Mater. Rapid Commun., acceptat 2015	A. D. Badoi, F. Dumitrache, C.T. Fleaca, N. Mihailescu, E. Vasile, C. Luculescu, L. Gavrilă, I. Morjan, I. Ciuca	0.394
60.	Toxicity of L-DOPA coated iron oxide nanoparticles in intraperitoneal delivery setting - preliminary preclinical study ,	Romanian J. Morphol. Embriol. 56 (2015) 691-696	M.V. Comanescu, M.A. Mocanu, L. Anghelache, B. Marinescu, F. Dumitrache, A.D. Badoi, G.Manda,	0.659
61.	Diazonium salt-mediated synthesis of new amino, hydroxy, propargyl, and maleimido-containing superparamagnetic Fe@C nanoparticles as platforms for linking bio-entities or organocatalytic moieties	JOURNAL OF NANOPARTICLE RESEARCH , 9 ,379 Published: SEP 21 2015	Bunge, Alexander; Magerusan, Lidia; Morjan, Ion; (Turcu, Rodica, Borodi, Gheorghe, Liebscher, Juergen	2.184
62.	<u>The ELI-NP facility for nuclear physics</u>	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS Volume:355 Pp:198-202 DOI:10.1016/j.nimb.2015.04.033 Published: Jul 15 2015	Ur, C. A.; Balabanski, D.; Cata-Danil, G. Gales, S.; Morjan, I ; Tesileanu, O.; Ursescu, D, Ursu, I., Zamfir, N. V.	1.124
63.	New Frontiers in Nuclear Physics Research at ELI-NP	ACTA PHYSICA POLONICA B Volume:46 Issue:3 Pp:743-752 Doi: 10:5506/APhysPolB.	Ur, C. A.; Balabanski, D., Cata-Danil, G. ; Gales, S., Morjan, I., Tesileanu, O., Ursescu, D., Ursu, I., Zamfir, N. V.	0.85

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64.	Characterization of mixtures of compounds produced in Chlorpromazine aqueous solutions by UV laser irradiation: their applications in antimicrobial assays	Jurnal of Biomedical Optics, 20(5), 051002, 2015.	T. Alexandru, A. Staicu, A. Pascu, E. Radu, A. Stoicu, V. Nastasa, A. Dinache, M. Boni, L. Amaral, M. L. Pascu,	2.859
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92.	One-pot laser-assisted synthesis of porous carbon with embedded magnetic cobalt nanoparticles	Nanoscale 7 (22), 10111-10122	CM Ghimbeu, M Sopronyi, F Sima, L Delmotte, C Vaultot, C Zlotea, Valérie P. Boncour, JM Le Meins	7.394
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232	Plasma–wall interactions with nitrogen seeding in all-metal fusion devices: Formation of nitrides and ammonia	Fusion Engineering and Design, Volumes 98–99, October 2015, Pages 1371-1374	Martin Oberkofler, D. Alegre, F. Aumayr, S. Brezinsek, T. Dittmar, K. Dobes, D. Douai, A. Drenik, M. Köppen, U. Kruezi, Ch. Linsmeier, C.P. Lungu, G. Meisl, M. Mozetic, C. Porosnicu, V. Rohde, S.G. Romanelli, the ASDEX Upgrade Team and JET EFDA Contributors	1.152
233	Growth of mixed materials in the Be/W/O system in fusion devices	Microscopy and Microanalysis 08/2015; 21(S6):94-95.	R. Mateus · P.A. Carvalho · N. Franco · E. Alves · C. Porosnicu · C.P. Lungu	1.88
234	Temperature influence on deuterium retention for Be-W mixed thin films prepared by Thermionic Vacuum Arc method exposed to PISCES B plasma	Journal of Nuclear Materials, Vol. 463, August 2015, p. 983-988	I. Jepu, R.P. Doerner, M.J. Baldwin, C. Porosnicu, C.P. Lungu	1.865
235	The relationship between gross and net erosion of beryllium at elevated temperature	Journal of Nuclear Materials, Vol 463, August 2015, p.777-780	R.P. Doerner, I. Jepu, D. Nishijima, E. Safi, L. Bukonte, A. Lasa, K. Nordlund, T. Schwarz-Selinger	1.865
236	Effects of annealing in Be/W and Be/C bilayers deposited on Si(001) substrates with Fe buffer layers	JOURNAL OF NUCLEAR MATERIALS Volume: 457 Pages: 220-226	Schinteie, G; Greculeasa, SG; Palade, P; Lungu, GA; Porosnicu, C; Jepu, I; Lungu, CP;	1.865



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237	Erosion at the inner wall of JET during the discharge campaign 2011-2012 in comparison with previous campaigns	JOURNAL OF NUCLEAR MATERIALS; Volume: 456 Pages: 106-110; DOI: 10.1016/j.jnucmat.2014.08.010 Published: JAN 2015	S. Krat · Yu Gasparyan · A. Pisarev · I. Bykov · M. Mayer · G. de Saint Aubin · M. Balden · C.P. Lungu · A. Widdowson; JET-EFDA Contributors	1.865
238	The influence of nitrogen co-deposition in mixed layers on deuterium retention and thermal desorption	Journal of Nuclear Materials, Volume 467, Part 1, December 2015, Pages 472-479	Anže Založnik, Sabina Markelj, Iztok Čadež, Primož Pelicon, Primož Vavpetič, Corneliu Porosnicu, Cristian P. Lungu	1.865
239	Glancing angle deposition in a pulsed laser ablation/vapor-liquid-solid grow system	APPLIED SURFACE SCIENCE Volume: 327 Pages: 262-267 Published: FEB 1 2015	Marcu, A ; Stokker, F ; Zamani, RR ; Lungu, CP	2.711
240	Spatially resolved nanostructural transformation in graphite under femtosecond laser irradiation	Applied Surface Science, Volume 355, 15 November 2015, Pages 477-483	A. Marcu, L. Avotina, C. Porosnicu, A. Marin, C.E.A. Grigorescu, D. Ursescu, M. Lungu, N. Demitri, C.P. Lungu	2.771
241	"EFFECT OF GLOW DISCHARGE PLASMA ON GERMINATION AND FUNGAL LOAD OF SOME CEREAL SEEDS";	ROMANIAN REPORTS IN PHYSICS 67 (2) 617-624 (2015).	Brasoveanu, M.; Nemtanu, M. R.; Surdu-Bob, C.; Karaca, G.; Erper, I.;	1.517 0
242	PREPARATION AND ANALYSIS OF FUNCTIONAL FUSION TECHNOLOGY RELATED MATERIALS	ROMANIAN JOURNAL OF PHYSICS Vol. 60 Issue: 3-4 Pages: 560-572 (2015)	Lungu, M ; Tiseanu, I ; Dobrea, C ; Porosnicu, C ; Jepu, I	0.924
243	Characterization of hydrogenated and deuterated silicon carbide films codeposited by magnetron sputtering	Nuclear Instruments and Methods in Physics Research B, 2015 (in press) http://dx.doi.org/10.1016/j.nimb.2015.10.060	Pantelica D., Ionescu P., Petrascu H., Dracea M.D., Statescu M., Matei E., Rasoga O., Stancu C., Marascu V., Ion V., Acsente T., Dinescu G.	1.124
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245	Dental Enamel Quality and Black Tooth Stain: A New Approach and Explanation by using Raman and AFM Techniques	PARTICULATE SCIENCE AND TECHNOLOGY (33) 435 (2015)	Sfeatcu, Ruxandra; Luculescu, Catalin; Ciobanu, Lidia; Balan, Adriana; Gatin, Eduard; Patrascu, Ion	0.523
246	Growth and Characterization of Arc Evaporated TiSiC-Ni Coatings	TRIBOLOGY LETTERS (58) - (JUN 2015).	Balaceanu, M.; Parau, A. C.; Braic, M.; Vladescu, A.; Luculescu, C. R.; Logofatu, C.; Braic, V.	1.739
247	Magneto-plasmonic biosensor with enhanced analytical response and stability	BIOSENSORS & BIOELECTRONICS (1) 0956-5663 (JAN 15 2015)	David, Sorin; Polonschii, Cristina; Luculescu, Catalin; Gheorghiu, Mihaela; Gaspar, Szilveszter; Gheorghiu, Eugen	6.409
248	Laser-grown ZnO Nanowires for Room-temperature SAW-sensor Applications	Sensors and Actuators, B: Chemical, 208, (2015), pp. 1-6	A.Marcu and C. Viespe	4.097
249	Glancing Angle Deposition in a Pulsed Laser Ablation / Vapor-Liquid- Solid Grow System	Appl. Surf. Sci, 327 (2015). pp 262–267	A.Marcu, F.Stocker, R.R. Zamani and C.P.Lungu	2.711
250	Spatially Resolved Nanostructural Transformation in Graphite under Femtosecond Laser Irradiation	Appl. Surf. Sci. 355 (2015), pp. 477–483	A.Marcu, L.Avotina, C.Porosnicu, A.Marin, C.E.A.Grigorescu, D.Ursescu, M.Lungu, N.Demitri and C.P. Lungu	2.711
251	Laser cutting of small- diameter holes in aluminum and carbon-steel sheets	Romanian Reports in Physics Acceptat 2015	G.D. Chioibasu, C. Vlespe	1.517
252	Multiple THz pulse generation with variable energy ratio and delay	Laser Phys. Lett. 12 (2015) 045301 (6pp)	R G Ungureanu, O V Grigore, M P Dinca, G V Cojocaru, D Ursescu, T Dascalu	2.458
253	Gain dynamics in quickly ionized plasma for seeded operated soft x-ray lasers	Opt.Lett. Vol. 40, Issue 20, pp. 4775-4778 (2015)	O. Guilbaud, G. V. Cojocaru, L. Li, O. Delmas, R. G. Ungureanu, R. A. Banici, S. Kazamias, K. Cassou,	3.292



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256	Comparative study of long period and fiber Bragg gratings under gamma irradiation	Sensors and Actuators A: Physical, Available online 18 July 2015	D. Sporea, A. Stancalie, D. Negut, G. Pilorget, S. Delepine-Lesoille, L. Lablonde	1.903
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258	Precession of cylindrical dust particles in the plasma sheath	PHYSICS OF PLASMA 22 103704 (2015)	N. Banu, C.M. Ticos	2.142
259	Collimated electron beam accelerated at 12 kV from a Penning discharge	REVIEW OF SCIENTIFIC INSTRUMENTS 86 (1) (2015)	D. Toader, M. Oane, C.M. Ticos	1.614
260	Experimental demonstration of Martian soil simulant removal from a surface using a pulsed plasma jet	REVIEW OF SCIENTIFIC INSTRUMENTS 86 Issue: 3 Article number: 033509 Published: Mar 2015	C.M. Ticos, A. Scurtu, D. Toader, N. Banu	1.614
261	Stepped heating procedure for experimental SAR evaluation of ferrofluids	The European Physical Journal E 38 (6) Article number:57 Published: Jun 23 2015	N. Iacob, G. Schinteie, P. Palade, C.M. Ticos, V. Kuncser	1.757



262	Semi-analytical solution of the thermal field distribution in a semiconductor under simultaneous irradiation by three laser fields	LASER IN ENGINEERING Volume: 32 Issue: 3-4 Pages: 161-171 Published: 2015	M. Oane, A. Peled, D. Toader, P. Mursa and C.M. Ticos	1.614
263	Highly accelerated microparticles in plasma flows	ROMANIAN REPORTS IN PHYSICS Volume: 67 Number: 3 Page: 1018 Published: 2015	C.M. Ticos	1.517
264	Synthesis and characterization of poly(acrylamide-co-acrylic acid) flocculant obtained by electron beam irradiation	MATERIAL RESEARCH: IBERO-AMERICAN JOURNAL OF MATERIALS Volume: 18 Number: 5 Pages: 984-993 Published: Sept 2015	Craciun G., Ighigeanu D., Manaila E., Stelescu M.D.	0.793
265	Characteristics of Wood Sawdust/Natural Rubber Composites Processed by Electron Beam Irradiation	MATERIALE PLASTICE Volume: 52 Issue: 2 Pages: 234-238 Published: Jun 2015	Craciun G., Manaila E., Stelescu M.D.	0.824
266	Studies on surface modification of silicone biomaterials	REVISTA DE CHIMIE Volume: 66 (8) Pages: 1193-1197 Published: Aug 2015	Manaila E., Niculescu M.D., Stelescu M.D.	0.81
267	Impact of electron beam irradiation on quality of sea buckthorn (<i>Hippophae rhamnoides</i> L.) oil	Journal of the Science of Food and Agriculture Article first published online: 30 JUN 2015	MR Nemțanu and M Brașoveanu	1.714
268	Effect of glow discharge plasma on germination and fungal load of some cereal seeds	ROMANIAN REPORTS IN PHYSICS Volume: 67 Issue: 2 Pages: 617-624 Published: 2015	Brasoveanu, M.; Nemtanu, M. R.; Surdu-Bob, C	1.517
269	Composition of the Essential Oil of <i>Rosa Damascena</i>	Revista de Chimie 66 (12)	M.D. Berechet, I Calinescu, MD Stelescu,	0.81



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270	Chemical composition of the essential oil of Artemisia Absinthium from Romania	REVISTA DE CHIMIE, 66(11), 1814-1818, 2015	M D Berechet, M.D. Stelescu, E Manaila, G Craciun	0.81
271	<u>Assessment of absorbed dose to water in high energy photon beams using different cylindrical chambers</u>	Romanian Reports in Physics, vol. 67, pg. 1152-1158, anul 2015	<u>Stancu, E ; Vancea, C ; Valenta, J ; Zeman, J ; Badita, E ;</u> Scarisoreanu, Anca	1.517
272	<u>Absorbed dose to water measurements in high energy electron beams using different plane parallel chambers</u>	Romanian Reports in Physics, vol. 67, pg. 693-699, anul 2015	<u>Stancu, E ; Vancea, C ; Valenta, J ; Zeman, J ; Badita, E ;</u> Scarisoreanu, Anca	1.517
273	Monte Carlo simulation of P-type HPGE detectors - the dead layer problem	Romanian Reports in Physics, vol. 67, pg. 465-473, anul 2015	<u>Stancu, E ;</u> Costache, C; Sima, O	1.517
274	Absorbed dose determination in conventional and laser-driven hadron clinical beams using electrical charge measurements – in press	Romanian Reports in Physics – in press	Scarlat, F; Verga, N; Scarisoreanu, A; Badita, E; Demeter, M; Stancu, E; Vancea, C; Scarlat FI	1.517
275	Study on the development of a new single mode optic fiber radiation dosimeter for electron beams – in press	Romanian Reports in Physics – in press	Badita, E; Vancea, C; Stancu, E; Scarlat, F; Calina, I; Scarisoreanu, A	1.517
276	Absorbed dose to water and air kerma results for measurements carried out in an oncology radiotherapy laboratory – in press	Romanian Reports in Physics – in press	Scarisoreanu, A; Scarlat, F; Stancu, E; Badita, E; Dumitrascu, M; Vancea, C; Popa , R	1.517
277	Radiation induced degradation of xanthan gum in the solid state – in press	<u>Radiation Physics and Chemistry</u> – in press	<u>Sen, M; Hayrabolulu, H; Taşkın, P; Torun, M; Demeter, M; Cutrubinis, M; Güven, O</u>	1.38

TOTAL INFLPR ISI = 580.964

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Crt.	Titlul lucrării	Revista	Autorii	Factor impact
1	Coherent psi (2S) photo-production in ultra-peripheral Pb-Pb collisions at root s(NN)=2.76TeV	PHYSICS LETTERS B, 751, 358-370 (2015)	Adam J. et al	6.131
2	EVOLUTION OF INTERMITTENCY IN THE SLOW AND FAST SOLAR WIND BEYOND THE ECLIPTIC PLANE	ASTROPHYSICAL JOURNAL LETTERS 814, 2 (2015)	Wawrzaszek, A.; Echim, M.; Macek, W. M.; Bruno, R.	5.339
3	Centrality dependence of high-p(T) D meson suppression in Pb-Pb collisions at root s(NN)=2.76 TeV	Journal of High Energy Physics, Issue 11, Article 205, 2015)	Adam, J.; Adamova, D, et al	6.111
4	One-dimensional pion, kaon, and proton femtoscopy in Pb-Pb collisions at root(NN)-N-S=2.76 TeV	Physical Review C, Vol. 92, Issue 5, Article 054908, 2015	ALICE Collaboration	3.733
5	Lattice fractional diffusion equation in terms of a Riesz-Caputo difference	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS 438, 335-339 (2015)	Wu, Guo-Cheng; Baleanu, Dumitru; Deng, Zhen-Guo; Zeng, Sheng-Da	1.732
6	A Jacobi Gauss-Lobatto and Gauss-Radau collocation algorithm for solving fractional Fokker-Planck equations	NONLINEAR DYNAMICS, 82, 3, 1431- 1440 (2015)	Hafez, Ramy M.; Ezz-Eldien, Samer S.; Bhrawy, Ali H.; Ahmed, Engy A.; Baleanu, Dumitru	2.849
7	CERTAIN NEW GRUSS TYPE INEQUALITIES INVOLVING SAIGO FRACTIONAL q-INTEGRAL OPERATOR	JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, 19, 5, 862-873 (2015)	Wang, Guotao; Agarwal, Praveen; Baleanu, Dumitru	0.481
8	New Operational Matrices for Solving Fractional Differential Equations on the Half-Line	PLOS ONE (vol 10, e0126620, 2015)	Bhrawy, Ali H.; Taha, Taha M.; Alzahrani, Ebraheem O.; Baleanu, Dumitru; Alzahrani, Abdulrahim A.	3.234
9	Measures of electronic-vibrational entanglement and quantum coherence in a	PHYSICAL REVIEW A, 92, 4 (2015)	Vatasescu, Mihaela	2.808



	molecular system			
10	The Pierre Auger Cosmic Ray Observatory	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, Volume: 798, Pages: 172-213, Published: OCT 21 2015,	Aab, A.; Abreu, P.; Aglietta, M.; ..lsar, P.G. et al., Pierre Auger Collaboration	1.216
11	ION-SCALE TURBULENCE IN THE INNER HELIOSPHERE: RADIAL DEPENDENCE	ASTROPHYSICAL JOURNAL, 812, 2 (2015)	Comisel, H.; Motschmann, U.; Buechner, J.; Narita, Y.; Nariyuki, Y.	5.993
12	On existence results for solutions of a coupled system of hybrid boundary value problems with hybrid conditions	ADVANCES IN DIFFERENCE EQUATIONS, 318, DOI:10.1186/S13662-015-06 (2015)	Baleanu, Dumitru; Khan, Hasib; Jafari, Hossein; Khan, Rahmat Ali; Alipour, Mohsen	0.64
13	Measurement of charged jet production cross sections and nuclear modification in p-Pb collisions at root s(NN)=5.02 TeV	PHYSICS LETTERS B, 749, 68-81 (2015)	ALICE Collaboration	6.131
14	Search of dark matter annihilation in the galactic centre using the ANTARES neutrino telescope	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, 10, (2015)	Adrian-Martinez, S. ;..., L. Caramete;..., G. Pavallas;... V.Popa et al (ANTARES Coll.)	5.81
15	Planck intermediate results. XXVI. Optical identification and redshifts of Planck clusters with the RTT150 telescope	ASTRONOMY & ASTROPHYSICS, 582 (2015)	Ade, P. A. R.; Aghanim, N	4.378
16	Thermal BEC Black Holes	Entropy, 17, 10, 6893-6924 (2015)	Casadio, Roberto; Giugno, Andrea; Micu, Octavian; Orlandi, Alessio	1.502
17	Precision measurement of the mass difference between light nuclei and anti-nuclei	NATURE PHYSICS, 11, 10, 811-U120 (2015)	ALICE Collaboration	20.147
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	Body Engine simulations of nuclear collisions at relativistic energies	218-220 (2015)	D.; Stan, E.; Esanu, T.	
19	A highly accurate Jacobi collocation algorithm for systems of high-order linear differential-difference equations with mixed initial conditions	MATHEMATICAL METHODS IN THE APPLIED SCIENCES, 38, 14, 3022-3032	Bhrawy, A. H.; Doha, E. H.; Baleanu, D.; Hafez, R. M.	0.918
20	Results for Mild solution of fractional coupled hybrid boundary value problems	OPEN MATHEMATICS, 13, 601-608 (2015)	Baleanu, Dumitru; Jafari, Hossein; Khan, Hasib; Johnston, Sarah Jane	0.578
21	Measurement of jet quenching with semi-inclusive hadron-jet distributions in central Pb-Pb collisions at root s(NN)=2.76 TeV	JOURNAL OF HIGH ENERGY PHYSICS, 9, 1-42 (2015)	ALICE Collaboration	6.111
22	Inelastic scattering of electrons by metastable hydrogen atoms in a laser field	PHYSICAL REVIEW A, 92, 3 (2015)	Buica, Gabriela	2.808
23	Measurement of charm and beauty production at central rapidity versus charged-particle multiplicity in proton-proton collisions at root s=7 TeV	JOURNAL OF HIGH ENERGY PHYSICS, 9 (2015)	ALICE Collaboration	6.111
24	Existence criterion for the solutions of fractional order p-Laplacian boundary value problems	BOUNDARY VALUE PROBLEMS 164, DOI: 10.1186/s13661-015-0425-2 (2015)	Jafari, Hossein; Baleanu, Dumitru; Khan, Hasib; Khan, Rahmat Ali; Khan, Aziz	1.014
25	Coherent rho(0) photoproduction in ultra-peripheral Pb-Pb collisions at root s(NN)=2.76 TeV	JOURNAL OF HIGH ENERGY PHYSICS, 9, (2015)	ALICE Collaboration	6.111
26	New Operational Matrices for Solving Fractional Differential Equations on the Half-Line	PLOS ONE, 10, e0126620, (2015)	Bhrawy, Ali H.; Taha, Taha M.; Alzahrani, Ebrahim O.; Baleanu, Dumitru; Alzahrani, Abdulrahim A.	3.234

27	Subdominant Dark Matter sterile neutrino resonant production in the light of PLANCK	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, 9 (2015)	Popa, L. A.; Tonoiu, D.	5.81
28	Planck 2013 results. XXXII. The updated Planck catalogue of Sunyaev-Zeldovich sources	ASTRONOMY & ASTROPHYSICS, 581, (2015)	Ade, P. A. R, et. al	4.378
29	Matching Nanoantenna Field Confinement to FRET Distances Enhances Forster Energy Transfer Rates	NANO LETTERS, 15, 9, 6193-6201 (2015)	Ghenuche, Petru; Mivelle, Mathieu; de Torres, Juan; Moparthi, Satish Babu; Rigneault, Herve; Van Hulst, Niek F.; Garcia-Parajo, Maria F.; Wenger, Jerome	13.592
30	Local fractional similarity solution for the diffusion equation defined on Cantor sets	APPLIED MATHEMATICS LETTERS, 47, 54-60 (2015)	Yang, Xiao-Jun; Baleanu, Dumitru; Srivastava, H. M.	1.337
31	On Gruss Type Integral Inequality Involving the Saigo's Fractional Integral Operators	JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, 19, 3, 480-489 (2015)	Baleanu, D.; Purohit, S. D.; Ucar, F.	0.481
32	Measurement of the cosmic ray spectrum above 4×10^{18} eV using inclined events detected with the Pierre Auger Observatory	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, Issue: 8, Article Number: 049, Published: AUG 2015,)	Aab, A.; Abreu, et. al Aab, A.; Abreu, P.; Aglietta, M.; ..lsar, P.G. et al., Pierre Auger Collaboration	5.81
33	Planck intermediate results XXIII. Galactic plane emission components derived from Planck with ancillary data	ASTRONOMY & ASTROPHYSICS, 580 (2015)	Ade, P. A. R.; Aghanim, N, et al	4.378
34	Planck intermediate results XXIV. Constraints on variations in fundamental constants	ASTRONOMY & ASTROPHYSICS, 580 (2015)	Ade, P. A. R.; Aghanim, N.; Arnaud, M, et al	4.378
35	Fractional Lie group method of the time-fractional Boussinesq equation	NONLINEAR DYNAMICS, 81,3, 1569-1574 (2015)	Jafari, Hossein; Kadkhoda, Nematollah; Baleanu, Dumitru	2.894
36	Variational iteration	APPLIED MATHEMATICAL	Wu, Guo-Cheng;	2.251



	method as a kernel constructive technique	MODELLING, 39,15 4378-4384 (2015)	Baleanu, Dumitru; Deng, Zhen-Guo	
37	Tau method for the numerical solution of a fuzzy fractional kinetic model and its application to the oil palm frond as a promising source of xylose	JOURNAL OF COMPUTATIONAL PHYSICS, 294, 562-584	Ahmadian, A.; Salahshour, S.; Baleanu, D.; Amirkhani, H.; Yunus, R.	2.434
38	Chaos in the fractional order nonlinear Bloch equation with delay	COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, 25, 41-49 (2015)	Baleanu, Dumitru; Magin, Richard L.; Bhalekar, Sachin; Daftardar-Gejji, Varsha	2.866
39	Horizon wave-function and the quantum cosmic censorship	PHYSICS LETTERS B, 747, 68-72 (2015)	Casadio, Roberto; Micu, Octavian; Stojkovic, Dejan	6.131
40	Muons in air showers at the Pierre Auger Observatory: Measurement of atmospheric production depth (vol 90, 012012, 2014)	PHYSICAL REVIEW D, Volume: 92, Issue: 1, Article Number: 019903 Published: JUL 20 2015,	Aab, A.; Abreu, P.; Aglietta, M.; ..Isar, P.G.et al., Pierre Auger Collaboration	4.643
41	Numerical solutions of fractional differential equations of Lane-Emden type by an accurate technique	ADVANCES IN DIFFERENCE EQUATIONS (2015)	Akgul, Ali; Inc, Mustafa; Karatas, Esra; Baleanu, Dumitru	0.64
42	Duality of singular linear systems of fractional nabla difference equations	APPLIED MATHEMATICAL MODELLING, 39, 14, 4180-4195 (2015)	Dassios, Ioannis K.; Baleanu, Dumitru I.	2.251
43	A spectral tau algorithm based on Jacobi operational matrix for numerical solution of time fractional diffusion-wave equations	JOURNAL OF COMPUTATIONAL PHYSICS, 293, 142-156 (2015)	Bhrawy, A. H.; Doha, E. H.; Baleanu, D.; Ezz-Eldien, S. S.	2.434
44	Inclusive, prompt and non-prompt J/psi production at mid-rapidity in Pb-Pb collisions at root S-NN=2.76 TeV	JOURNAL OF HIGH ENERGY PHYSICS, 7 (2015)	ALICE Collaboration	6.111
45	Complexity Phenomena	PURE AND APPLIED	Chang, Tom; Wu,	1.618



	and ROMA of the Earth's Magnetospheric Cusp, Hydrodynamic Turbulence, and the Cosmic Web	GEOPHYSICS, 172, 7, 2025-2043 (2015)	Cheng-chin; Echim, Marius; Lamy, Herve; Vogelsberger, Mark; Hernquist, Lars; Sijacki, Debora	
46	Numerical solution of the fractional Euler-Lagrange's equations of a thin elastica model	NONLINEAR DYNAMICS, 81, 97-102 (2015)	Baleanu, Dumitru; Asad, Jihad H.; Petras, Ivo	2.894
47	On some self-adjoint fractional finite difference equations	JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, 19, 1, 59-67 (2015)	Baleanu, Dumitru; Rezapour, Shahram; Salehi, Saeid	0.481
48	Measurement of jet suppression in central Pb-Pb collisions at root s(NN)=2.76 TeV	PHYSICS LETTERS B, 746, 1-14 (2015)	ALICE Collaboration	6.131
49	Measurement of dijet k(T) in p-Pb collisions at root s(NN)=5.02 TeV	PHYSICS LETTERS B, 746, 385-395 (2015)	ALICE Collaboration	6.131
50	Elliptic flow of identified hadrons in Pb-Pb collisions at root(NN)-N-s=2.76 TeV	JOURNAL OF HIGH ENERGY PHYSICS, 6 (2015)	ALICE Collaboration	6.111
51	Charged jet cross sections and properties in proton-proton collisions at root s=7 TeV	PHYSICAL REVIEW D, 91,11 (2015)	ALICE Collaboration	4.643
52	Search for patterns by combining cosmic-ray energy and arrival directions at the Pierre Auger Observatory	EUROPEAN PHYSICAL JOURNAL C, Volume: 75, Issue: 6, Article Number: 269, Published: JUN 20 2015	Aab, A.; Abreu, P.; Aglietta, M.; ..lsar, P.G.et al., Pierre Auger Collaboration	5.048
53	Rapidity and transverse-momentum dependence of the inclusive J/psi nuclear modification factor in p-Pb collisions at root s(NN)=5.02 TeV	JOURNAL OF HIGH ENERGY PHYSICS, 6 (2015)	ALICE Collaboration	6.111
54	Centrality dependence of particle production in p-Pb collisions at root s(NN)=5.02 TeV	Physical Review C, Vol. 91, Issue 6, Article 064905, 2015	ALICE Collaboration	3.733
55	Discrete chaos in	NONLINEAR DYNAMICS,	Wu, Guo-Cheng;	2.894



	fractional delayed logistic maps	80, 4, 1697-1703 (2015)	Baleanu, Dumitru	
56	Measurement of pion, kaon and proton production in proton-proton collisions at $\sqrt{s}=7$ TeV	European Physical Journal C, Vol. 75, Issue 5, Article 226, 2015	ALICE Collaboration	5.048
57	Improved limit to the diffuse flux of ultrahigh energy neutrinos from the Pierre Auger Observatory	PHYSICAL REVIEW D, Volume: 91, Issue: 9, Article Number: 092008, Published: MAY 26 2015,	Aab, A.; Abreu, P.; Aglietta, M.; ..lsar, P.G.et al. Pierre Auger Collaboration	4.643
58	New Operational Matrices for Solving Fractional Differential Equations on the Half-Line	PLOS ONE, 10,5 (2015)	Bhrawy, Ali H.; Taha, Taha M.; Alzahrani, Ebrahim O.; Baleanu, Dumitru; Alzahrani, Abdulrahim A.	3.234
59	Forward-backward multiplicity correlations in pp collisions at $\sqrt{s}=0.9, 2.76$ and 7 TeV	Journal of High Energy Physics, Issue 5, Article 097, 2015	ALICE Collaboration	6.111
60	A Kamenev-type oscillation result for a linear $(1+\alpha)$ -order fractional differential equation	APPLIED MATHEMATICS AND COMPUTATION, 259, 374-378 (2015)	Baleanu, Dumitru; Mustafa, Octavian G.; O'Regan, Donal	1.551
61	INERTIAL RANGE TURBULENCE OF FAST AND SLOW SOLAR WIND AT 0.72 AU AND SOLAR MINIMUM	ASTROPHYSICAL JOURNAL LETTERS, 804, 2 (2015)	Teodorescu, Eliza; Echim, Marius; Munteanu, Costel; Zhang, Tielong; Bruno, Roberto; Kovacs, Peter	5.339
62	Performance of fully instrumented detector planes of the forward calorimeter of a Linear Collider detector	JOURNAL OF INSTRUMENTATION Vol. 10 Article Number: P05009 Published: MAY 2015	Abramowicz, H.; Abusleme, A.; Afanaciev, K.; Ghenescu, V., Preda, Neagu, Firu, Zgura	1.399
63	SEARCHES FOR ANISOTROPIES IN THE ARRIVAL DIRECTIONS OF THE HIGHEST ENERGY COSMIC RAYS DETECTED BY THE PIERRE AUGER OBSERVATORY	ASTROPHYSICAL JOURNAL, Volume: 804, Issue: 1, Article Number: 15, Published: MAY 1 2015,	Aab, A.; Abreu, P.; Aglietta, M.; ..lsar, P.G.et al., Pierre Auger Collaboration	5.993
64	Application of	SIGNAL IMAGE AND VIDEO	Dinc, Erdal; Duarte,	1.43



	continuous wavelet transform to the analysis of the modulus of the fractional Fourier transform bands for resolving two component mixture	PROCESSING, 9, 4, 801-807 (2015)	Fernando B.; Machado, J. A. Tenreiro; Baleanu, Dumitru	
65	Jacobian matrix algorithm for Lyapunov exponents of the discrete fractional maps	COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION 22, 1-3, 95-100, (2015)	Wu, Guo-Cheng; Baleanu, Dumitru	2.866
66	A novel expansion iterative method for solving linear partial differential equations of fractional order	APPLIED MATHEMATICS AND COMPUTATION, 257, 119- 133 (2015)	El-Ajou, Ahmad; Abu Arqub, Omar; Momani, Shaher; Baleanu, Dumitru; Alsaedi, Ahmed	1.551
67	Two fractional derivative inclusion problems via integral boundary condition	APPLIED MATHEMATICS AND COMPUTATION, 257, 205-212 (2015)	Agarwal, Ravi P.; Baleanu, Dumitru; Hedayati, Vahid; Rezapour, Shahram	1.551
68	Inclusive photon production at forward rapidities in proton-proton collisions at root s=0.9, 2.76 and 7 TeV	European Physical Journal C, Vol. 75, Issue 4, Article 146, 2015	ALICE Collaboration	5.048
69	Solving fully fuzzy polynomials using feed-back neural networks	INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, 92, 4, 742-755 (2015)	Jafarian, Ahmad; Jafari, Raheleh; Golmankhaneh, Alireza Khalili; Baleanu, Dumitru	0.824
70	Planck intermediate results. XIX. An overview of the polarized thermal emission from Galactic dust	ASTRONOMY & ASTROPHYSICS, 576 (2015)	Ade, P. A. R.; Aghanim, et al	4.378
71	ANTARES constrains a blazar origin of two IceCube PeV neutrino events	ASTRONOMY & ASTROPHYSICS, 576 (2015)	Adrian-Martinez, S. ;..., L. Caramete;..., G. Pavlas;... V.Popa et al (ANTARES Coll.)	4.378
72	THE FIRST INTEGRAL METHOD FOR WU-ZHANG NONLINEAR SYSTEM WITH TIME-DEPENDENT COEFFICIENTS	PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE,16,2, 160-167 (2015)	Baleanu, Dumitru; Kilic, Bulent; Inc, Mustafa	1.658
73	A NUMERICAL	FRACTIONAL CALCULUS	Jafari, Hossein;	2.245

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74	Detection of Lead and Cadmium Ions by Voltammetry using Antimony Impregnated Activated Carbon	REVISTA DE CHIMIE, 66, 4, 499- 502 (2015)	Farooqi, Muhammad Omer; Taimoor, Aqeel Ahmad; Al-Shahrani, Saad; Baleanu, Dumitru; Rather, Sami Ullah	0.81
75	Leadership in Romanian Small to Medium Enterprises	SUSTAINABILITY, 7, 4, 4183 – 4198 (2015)	Craciun, Liliana; Nastase, Marian; Stamule, Tanase; Vizitiu, Cristian	0.942
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78	Discrete fractional diffusion equation	NONLINEAR DYNAMICS, 80, 281-286 (2015)	Wu, Guo-Cheng; Baleanu, Dumitru; Zeng, Sheng-Da; Deng, Zhen-Guo	2.894
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80	Two-pion femtoscopy in p-Pb collisions at root(NN)-N-S=5.02 TeV	Physical Review C, Vol. 91, Issue 3, Article 034906, 2015	ALICE Collaboration	3.733
81	FRET Enhancement in Aluminum Zero-Mode Waveguides	CHEMPHYSICHEM, 16, 4, 782-788 (2015)	de Torres, Juan; Ghenuche, Petru; Moparthy, Satish Babu; Grigoriev, Victor; Wenger, Jerome	3.419

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83	Analysis of UV spectral bands using multidimensional scaling	SIGNAL IMAGE AND VIDEO PROCESSING, 9, 3, 573-580 (2015)	Tenreiro Machado, J. A.; Dinc, Erdal; Baleanu, Dumitru	1.43
84	Ultra-high-energy cosmic rays from low-luminosity active galactic nuclei	ASTROPARTICLE PHYSICS, 62, 206-216 (2015)	Dutan, Ioana; Caramete, Laurentiu I.	3.584
85	Dispersion relation as a channel of plasma turbulence evolution	EARTH PLANETS AND SPACE, 67, 1-9 (2015)	Comisel, Horia; Narita, Yasuhito; Motschmann, Uwe	1.328
86	$K^*(892)(0)$ and $\phi(1020)$ production in Pb-Pb collisions at $\sqrt{s(NN)}=2.76$ TeV	Physical Review C, Vol. 91, Issue 2, Article 024609, 2015	ALICE Collaboration	3.733
87	Muons in air showers at the Pierre Auger Observatory: Mean number in highly inclined events	PHYSICAL REVIEW D, Volume: 91, Issue: 3, Article Number: 032003 Published: FEB 6 2015	Aab A.; Abreu, P.; Aglietta, M.; ..Isar, P.G. et al. Pierre Auger Collaboration	4.643
88	Multiplicity dependence of jet-like two-particle correlation structures in p-Pb collisions at $\sqrt{s(NN)}=5.02$ TeV	Physics Letters B, Vol. 741, 38-50, 2015	ALICE Collaboration	6.131
89	On Analytical Solutions of the Fractional Differential Equation with Uncertainty: Application to the Basset Problem	ENTROPY, 17, 2, 885-902 (2015)	Salahshour, Soheil; Ahmadian, Ali; Senu, Norazak; Baleanu, Dumitru; Agarwal, Praveen	1.502
90	Reprint of: Chaos synchronization of the discrete fractional logistic map	SIGNAL PROCESSING, 107, 444-447 (2015)	Wu, Guo-Cheng; Baleanu, Dumitru	2.209
91	An efficient numerical scheme based on the shifted orthonormal Jacobi polynomials for solving fractional optimal control problems	ADVANCES IN DIFFERENCE EQUATIONS, 2015	Doha, Eid H.; Bhrawy, Ali H.; Baleanu, Dumitru; Ezz-Eldien, Samer S.; Hafez, Ramy M.	0.64



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93	Production of Sigma (1385)(+/-) and Xi (1530)(0) in proton-proton collisions at root s=7 TeV	European Physical Journal C, Vol. 75, Issue 1, Article 1, 2015	ALICE Collaboration	5.048
94	Measurement of electrons from semileptonic heavy-flavor hadron decays in pp collisions at root s=2.76 TeV	Physical Review D, Vol. 91, Issue 1, Article 012001, 2015	ALICE Collaboration	4.643
95	Production of inclusive gamma(1S) and gamma(2S) in p-Pb collisions at, root S-NN=5.02 TeV	Physics Letters B, Vol. 740, 105-117, 2015	ALICE Collaboration	6.131
96	On the Nonlinear Perturbation K(n, m) Rosenau-Hyman Equation: A Model of Nonlinear Scattering Wave	ADVANCES IN MATHEMATICAL PHYSICS, 46327- 46327 (2015)	Atangana, Abdon; Baleanu, Dumitru; Al Qurashi, Maysaa' Mohamed; Yang, Xiao-Jun	1.1
97	Counterintuitive issues in the charge transport through molecular junctions	PHYSICAL CHEMISTRY CHEMICAL PHYSICS, 17, 46, 31260-31269 (2015)	Baldea, Ioan	4.493
98	LOPES - Recent Results and Open Questions on the Radio Detection of Air Showers	24TH EUROPEAN COSMIC RAY SYMPOSIUM (ECRS), 632 (2015)	Schroeder, F. G.; Apel, W. D., et al	N/A
99	GENERALIZED LAGUERRE-GAUSS-RADAU SCHEME FOR FIRST ORDER HYPERBOLIC EQUATIONS ON SEMI-INFINITE DOMAINS	ROMANIAN JOURNAL OF PHYSICS, 60, 918-934 (2015)	Bhrawy, A. H.; Hafez, R. M.; Alzahrani, E. O.; Baleanu, D.; Alzahrani, A. A.	0.924
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101	NUMERICAL SIMULATION OF TIME VARIABLE FRACTIONAL ORDER MOBILE- IMMOBILE ADVECTION- DISPERSION MODEL	ROMANIAN REPORTS IN PHYSICS, 67, 3, 773-791 (2015)	Abdelkawy, M. A.; Zaky, M. A.; Bhrawy, A. H.; Baleanu, D.	1.517
102	DEVELOPMENT OF AN INTEGRATED ON-LINE SYSTEM FOR THE STUDY OF THE HADRONIC INTERACTIONS IN HIGH ENERGY PHYSICS	ROMANIAN REPORTS IN PHYSICS, 67, 3, 819-830 (2015)	Cioranu, S.; Jipa, A.; Potlog, P. M.	1.517
103	COMPARISONS AMONG THE HADRON PRODUCTION IN ULTRA RELATIVISTIC HEAVY ION COLLISIONS IN DIFFERENT TRANSVERSE MOMENTUM RANGES. PRELIMINARY RESULTS	Romanian Reports in Physics, Vol. 67, Issue 3, 831-836, 2015	Danu, A.; Ristea, O.; Besliu, C.; Jipa, Al.; Zgura, I. S.; Ristea, C.; Sevcenco, A.; Mitu, C. M.; Esanu, T.	1.517
104	BIFURCATIONS AND FAST-SLOW DYNAMICS IN A LOW- DIMENSIONAL MODEL FOR QUASI-PERIODIC PLASMA PERTURBATIONS	ROMANIAN REPORTS IN PHYSICS, 67, 3, 1049 – 1060 (2015)	Constantinescu, D.; Dumbrajs, O.; Igochine, V.; Lackner, K.; Zohm, H.	1.517
105	FRACTAL BOUNDARY VALUE PROBLEMS FOR INTEGRAL AND DIFFERENTIAL EQUATIONS WITH LOCAL FRACTIONAL OPERATORS	THERMAL SCIENCE, 19, 3, 959 – 966	Yang, Xiao-Jun; Baleanu, Dumitru; Lazarevic, Mihailo P.; Cajic, Milan S.	1.222
106	Important issues facing model-based approaches to tunneling transport in molecular junctions	PHYSICAL CHEMISTRY CHEMICAL PHYSICS, 17, 31, 20217 – 20230 (2015)	Baldea, Ioan	4.493
107	On the 60th Anniversary of Professor Jordan Yankov Hristov	THERMAL SCIENCE, 19, SXI- SXII (2015)	Baleanu, Dumitru; Yang, Xiao-Jun; Xie, Gongnan	1.222
108	Special Issue on the Occasion of 60th Anniversary of Professor	THERMAL SCIENCE, 19, SIX – SX (2015)	Baleanu, Dumitru; Yang, Xiao-Jun; Xie, Gongnan	1.222



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109	A NEW NUMERICAL TECHNIQUE FOR SOLVING FRACTIONAL SUB-DIFFUSION AND REACTION SUB- DIFFUSION EQUATIONS WITH A NON-LINEAR SOURCE TERM	THERMAL SCIENCE, 19, S25 - S34 (2015)	Bhrawy, Ali H.; Baleanu, Dumitru; Mallawi, Fouad	1.222
110	SOLVING THE TIME- FRACTIONAL DIFFUSION EQUATION USING A LIE GROUP INTEGRATOR	THERMAL SCIENCE, 19, S77 - S83 (2015)	Hashemi, Mir Sajjad; Baleanu, Dumitru; Parto-Haghighi, Mohammad; Darvishi, Elham	1.222
111	OBSERVING DIFFUSION PROBLEMS DEFINED ON CANTOR SETS IN DIFFERENT CO- ORDINATE SYSTEMS	THERMAL SCIENCE, 19, S151 - S156 (2015)	Yang, Xiao-Jun; Baleanu, Dumitru; Baleanu, Mihaela- Cristina	1.222
112	NEW NUMERICAL APPROXIMATIONS FOR SPACE-TIME FRACTIONAL BURGERS' EQUATIONS VIA A LEGENDRE SPECTRAL- COLLOCATION METHOD	ROMANIAN REPORTS IN PHYSICS, 67, 2, 340 – 349 (2015)	Bhrawy, A. H.; Zaky, M. A.; Baleanu, D.	1.517
113	DEVELOPMENT OF A MULTI CONVERGENCE- CONTROLLER PARAMETRIC PERTURBATION APPROACH FOR SOME LINEAR AND NONLINEAR INTEGRAL EQUATIONS	ROMANIAN REPORTS IN PHYSICS, 67, 2, 359-374 (2015)	Sayevand, K.; Baleanu, Dumitru; Fardi, M.	1.517
114	IDEAS IN FUSION PLASMA PHYSICS AND TURBULENCE	ROMANIAN REPORTS IN PHYSICS, 67,2 547-563 (2015)	Weyssow, B.; Negrea, M.; Steinbrecher, G.; Petrisor, I.; Constantinescu, D.; Pometescu, N.; Vlad, M.; Spineanu, F.	1.517
115	An important impact of the molecule-electrode	PHYSICAL CHEMISTRY CHEMICAL PHYSICS, 17, 24,	Baldea, Ioan	4.493



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117	Software for the Occupational Health and Safety Integrated Management System	PROCEEDINGS OF THE INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2014 (ICNAAM-2014) 1648, (2015)	Vatasescu, Mihaela	N/A
118	Evaluating the Safety Risk in Relation to the Energetic Field	PROCEEDINGS OF THE INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2014 (ICNAAM-2014), 1648 (2015)	Vatasescu, Mihaela; Vatasescu, Mihail; Vasilescu, Gabriel Dragos; Lemle, Ludovic Dan	N/A
119	Advanced Research in the Field of Instruments for Use in the Probabilistic Study of Security	PROCEEDINGS OF THE INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2014 (ICNAAM-2014) 1648 (2015)	Vatasescu, Mihail; Vatasescu, Mihaela; Vasilescu, Gabriel Dragos; Lemle, Ludovic Dan	N/A
120	X-max(μ) vs. N- μ from Extensive Air Showers as estimator for the mass of primary UHECR's. Application for the Pierre Auger Observatory.	EXOTIC NUCLEI AND NUCLEAR/PARTICLE ASTROPHYSICS (V). FROM NUCLEI TO STARS, 1645, 286-290 (2015)	Arsene, Nicusor; Sima, Octavian	N/A
121	A NOVEL SPECTRAL APPROXIMATION FOR THE TWO-DIMENSIONAL FRACTIONAL SUB-DIFFUSION PROBLEMS	ROMANIAN JOURNAL OF PHYSICS, 60, 344-359 (2015)	Bhrawy, A. H.; Zaky, M. A.; Baleanu, D.; Abdelkawy, M. A.	0.924
122	ON MODELING THE GROUNDWATER FLOW WITHIN A CONFINED AQUIFER	ROMANIAN JOURNAL OF PHYSICS, 60, 573 – 582 (2015)	Atangana, Abdon; Baleanu, Dumitru	0.924
123	On a Time-Fractional Integrodifferential	MATHEMATICAL PROBLEMS IN	Baleanu, Dumitru; Rezapour, Shahram;	0.762



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124	Adaptation of the de Hoffmann-Teller frame for quasi-perpendicular collisionless shocks	ANNALES GEOPHYSICAE, 33, 3, 345 – 350 (2015)	Comisel, H.; Narita, Y.; Motschmann, U.	1.709
125	AN ACCURATE NUMERICAL TECHNIQUE FOR SOLVING FRACTIONAL OPTIMAL CONTROL PROBLEMS	PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE, 16,1, 47-54 (2015)	Bhrawy, A. H.; Doha, E. H.; Baleanu, D.; Ezz-Eldien, S. S.; Abdelkawy, M. A.	1.658
126	EINSTEIN FIELD EQUATIONS WITHIN LOCAL FRACTIONAL CALCULUS	ROMANIAN JOURNAL OF PHYSICS, 60, 22-31 (2015)	Golmankhaneh, Alireza K.; Yang, Xiao-Jun; Baleanu, D.	0.924
127	THE FIRST INTEGRAL METHOD FOR THE (3+1)-DIMENSIONAL MODIFIED KORTEWEG-DE VRIES-ZAKHAROV-KUZNETSOV AND HIROTA EQUATIONS	ROMANIAN JOURNAL OF PHYSICS, 60, 111- 125 (2015)	Baleanu, D.; Kilic, B.; Ugurlu, Y.; Inc, M.	0.924
128	Planck intermediate results. XVIII. The millimetre and sub-millimetre emission from planetary nebulae	ASTRONOMY & ASTROPHYSICS, 573 (2015)	Arnaud, M.; Atrio-Barandela, et al	4.378
129	Experimental test of the $\rho(1-\alpha)$ evolution for rotational discontinuities: cluster magnetopause observations	ANNALES GEOPHYSICAE, 33, 1, 79-91 (2015)	Blagau, A.; Paschmann, G.; Klecker, B.; Marghita, O.	1.709
130	Investigation of the fractional diffusion equation based on generalized integral quadrature technique	APPLIED MATHEMATICAL MODELLING., 39, 1, 86-98 (2015)	Razminia, Kambiz; Razminia, Abolhassan; Baleanu, Dumitru	2.251
131	Investigations on Carboxy Dibenzylidene Sorbitol Hydrogels Using EPR Spectroscopy	APPLIED MAGNETIC RESONANCE, 46, 12, 1395 – 1407 (2015)	Ariciu, Ana Maria; Staicu, Teodora; Micutz, Marin; Neacsu, Maria Victoria; Ionita, Petre; Tecuceanu, Victorita;	1,167



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132	Experimental and Theoretical Analysis of Nanotransport in Oligophenylene Dithiol Junctions as a Function of	ACS NANO 9 8 8022-8036 (2015)	Z. Xie, I. Baldea, C.E. Smith, Y. Wu, C.D.	12,881
133	Thermodynamics, density profiles, and correlation functions of the inhomogeneous one-dimensional spinor Bose gas	PHYSICAL REVIEW A 92, 043631 (2015)	O.I. Patu and A. Klumper	2,808
134	Correlation functions and momentum distribution of one-dimensional hard-core anyons in optical lattices	JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT : P01004 (2015)	O.I. Patu	2,204
135	On fractional neutral integro-differential systems with state-dependent delay and non-instantaneous impulses	ADVANCES IN DIFFERENCE EQUATIONS, 372, DOI: 10.1186/s13662-015-0709-y (2015)	Suganya Selvaraj, Baleanu Dumitru, Kalamani Palaniyappan, Arjunan Mani Mallika	0,64
136	On the existence of solution for fractional differential equations of order $3 < \Delta(1) \leq 4$	ADVANCES IN DIFFERENCE EQUATIONS, 362, DOI: 10.1186/s13662-015-0686-1 (2015)	Baleanu Dumitru, Agarwal Ravi P., Khan Hasib, Khan Rahmat Ali, Jafari Hossein	0,64
137	On the existence of solutions for a fractional finite difference inclusion via three points boundary conditions	ADVANCES IN DIFFERENCE EQUATIONS, 242, DOI: 10.1186/s13662-015-0559-7 (2015)	Baleanu Dumitru, Rezapour Shahram, Salehi Saeid	0.64
0,64	New properties of conformable derivative	OPEN MATHEMATICS 13, 889-898, (2015)	Atangana Abdon, Baleanu Dumitru, Alsaedi Ahmed	0,578
139	A New fractional derivative for differential equation of fractional order under interval uncertainty	ADVANCES IN MECHANICAL ENGINEERING 7, 12, (2015)	Salahshour Soheil, Ahmadian Ali, Ismail Fudzial, Baleanu Dumitru, Senu Norazak	0,575
140	On a Numerical Approach to Solve Multi-Order Fractional Differential Equations	JOURNAL OF COMPUTATIONAL AND NONLINEAR DYNAMICS 10, 6, 061025, (2015)	Firoozjaee M. A., Yousefi S. A., Jafari H., Baleanu Dumitru	1,111



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141	Improved (G'/G)-Expansion Method for the Time-Fractional Biological Population Model and Cahn-Hilliard Equation	JOURNAL OF COMPUTATIONAL AND NONLINEAR DYNAMICS 10, 5, 051016, (2015)	Baleanu Dumitru, Ugurlu Yavuz, Inc Mustafa, Kilic Bulent	1,111
142	On the Exact Solution of Wave Equations on Cantor Sets	ENTROPY 17, 9, 6229-6237, (2015)	Baleanu Dumitru, Khan Hasib, Jafari Hossien, Khan Rahmat Ali	1,502
143	On integral equations with Weakly Singular kernel by using Taylor series and Legendre polynomials	OPEN PHYSICS 13, 1, 298-304, (2015)	Babolian Esmail, Hamedzadeh Danial, Jafari Hossein, Hajikandi Asghar Arzhang, Baleanu Dumitru	1,085
144	On the Analysis of Data Emerging in Non-linear and Complex Systems Comparison of two X-ray Prony spectra	REVISTA DE CHIMIE 66, 12, 1929-1937 (2015)	Nigmatullin Raul R., Khramov A. S., Kiyamov A. G., Fatkhullin B. F., Machado J. T., Baleanu Dumitru	0,81
145	A lie group approach to solve the fractional poisson equation	ROMANIAN JOURNAL OF PHYSICS 60, 9-10, 1289-1297 (2015)	Hashemi M. S., Baleanu Dumitru, Parto-Haghighi M.	0,924
146	A Chebyshev-Laguerre-Gauss-Radau collocation scheme for solving a time fractional sub-diffusion equation on a semi-infinite domain	PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE 16, 4, 490-498 (2015)	Bhrawy A. H., Abdelkawy M. A., Alzahrani A. A., Baleanu Dumitru, Alzahrani E. O.	1,658
147	New studies of the ionizing irradiation effects on CdS/CdTe heterojunction	ROMANIAN REPORTS IN PHYSICS ,Volume: 67, Issue: 4 Pages: 1570-1577 Published: 2015	Ion, L.; Ghenescu, Veta; Ghenescu, M.; Gugiu, M. M. ; Iftimie, Sorina; Radu, A.; Vasile, Nicoleta ; Toma, O.; Antohe, S.	1,517
148	Centrality dependence of inclusive J/psi production in p-Pb collisions at root S-NN=5.02TeV	Journal of High Energy Physics, Issue 11, Article 127, 2015	Journal of High Energy Physics, Issue 11, Article 127, 2015	6.111
149	Two Ways of High-Energy Heavy Ion	World Journal of Nuclear Science and Technology;	Reinhard Brandt; Valery Ditlov; Maria	0.46



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150	Planck intermediate results XXV. The Andromeda galaxy as seen by Planck	ASTRONOMY & ASTROPHYSICS Volume: 582 Article Number: A28	Planck intermediate results XXV. The Andromeda galaxy as seen by Planck	4.378
151	Planck intermediate results XXVIII. Interstellar gas and dust in the Chamaeleon clouds as seen by Fermi LAT and Planck	ASTRONOMY & ASTROPHYSICS Volume: 582 Article Number: A31	Ade, PAR, ...,Popa, L, ...et al. (Planck Collaboration)	4.378
152	Planck intermediate results XXVII. High-redshift infrared galaxy overdensity candidates and lensed sources discovered by Planck and confirmed by Herschel-SPIRE	ASTRONOMY & ASTROPHYSICS Volume: 582 Article Number: A30	Ade, PAR, ...,Popa, L, ...et al. (Planck Collaboration)	4.378
153	Inner horizon of the quantum Reissner-Nordstrom black holes	JHEP 1505 (2015) 096	Casadio, Roberto; Micu, Octavian; Stojkovic, Dejan	6.111
154	Radio polarimetry as a probe of unresolved jets: the 2013 outburst of XTE J1908+094	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY Volume: 451 Issue: 4 Pages: 3975-3985	Curran, P. A.;...; Tudose,V	5.107
155	Radio monitoring of the hard state jets in the 2011 outburst of MAXI J1836-194	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY Volume: 450 Issue: 2 Pages: 1745-1759	Russell, T. D.;...; Tudose, V; et al	5.107

TOTAL ISS ISI= 442.184

TOTAL GENERAL INFLPR+ISS ISI=580.964+442.184 = 1023.148

**Anexa 4: Listă brevete de invenție (solicitate/acordate)**

Nr. Crt.	Titlu	Revista oficiala	Inventatori/ Titulari	Solicitat/ acordat
1.	Transfer energetic prin particule solide in zona de sinteză in piroliza cu laser de nanoparticule	A/00167/06.03. 2015	Popovici Ernest	SOLICITAT
2.	Sistem de injectie versatil de precursori lichizi in stare gazoasă și/sau de vapori in sinteză de nanoparticule cu piroliză cu laser	A/00188/13.03. 2015	Gavrila-Florescu Lavinia, Ilie Alina, Popovici Ernest, Morjan Ion, Scarisoreanu Monica	SOLICITAT
3.	Sinteza de nanotuburi și/sau nanostructuri in flux direct prin piroliză laser	A/00205/23.03. 2015	Badoi Anca, Gavrila-Florescu Lavinia, Popovici Ernest	SOLICITAT
4.	Sistem versatil de injectare a precursorilor in stare gazoasa/vapori aplicat in piroliză laser pentru obținerea de nanoparticule	A/00221/18.09. 2015	Scarisoreanu Monica, Gavrila-Florescu Lavinia, Popovici Ernest, Morjan Ion	SOLICITAT
5.	Metode de geometrii optice pentru sinteza de nanopulberi prin piroliză laser CO ₂ /micrometric cu și fara precursor solid	A/00273/21.04. 2015	Popovici Ernest, Gavrila-Florescu Lavinia, Popovici Ernest, Morjan Ion, Ilie Alina	SOLICITAT
6.	Procedeu de obținere a dioxidului de titan prin piroliză laser, pentru aplicații in fotocataliză	A/00534/23.07. 2015	Gavrila-Florescu Lavinia, Popovici Ernest, Morjan Ion, Diamandescu Lucian, Raditoiu Valentin, Raditoiu Alina, Wagner Luminita, Badoi Anca, Miron Dan	SOLICITAT
7.	Sinteza de nano SiC cu piroliză laser cu aprindere in volum	A/00682/21.09. 2015	Popovici Ernest, Morjan Ion, Dumitrache Florian, Miron Dan	SOLICITAT



8.	Sinteza de nano SiC cu piroliză laser cu aprindere liniară	A/00681/21.09.2015	Popovici Ernest, Morjan Ion, Dumitrache Florian, Miron Dan	SOLICITAT
9.	Procedeu de structurare a suprafețelor cu radiație laser prin efect de intensificare optică în câmp apropiat.	127505	Zamfirescu, Marian; Jipa, Florin; Anghel, Iulia	ACORDAT
10.	“Structură tip implant formată dintr-un film subțire nanocompozit pe substrat de oțel și procedeu de obținere a acesteia”,	A/00981/08.12.2015	FLOROIAN LAURA, SAMOILĂ CORNEL, BADEA MIHAELA, FLOROIAN DAN, RISTOSCU CARMEN-GEORGETA, MIHAILESCU NATALIA, NEGUT IRINA, MIHAILESCU ION N.,	ACORDAT
11.	“Structure for Enhanced Raman Scattering and Method for its preparation/fabrication” ,	112167/04.12.2015	Victor G. Ivanov, Emil S. Vlahov, Ion N. Mihailescu, Carmen Ristoscu,	ACORDAT
12.	Procedeu de tratament termic al filmelor oxidice în vederea obținerii de electrozi de contact pentru celule solare	A/00439/30.12.2015	Petronela Garoi , Valentin Craciun, Florin Garoi, Cristian Viespe	ACORDAT
13.	Generator de vapori cu US pentru sinteza de np/ns prin piroliză laser	A/00994/11.12.2015	Popovici Ernest, Morjan Ion, Miron Dan	SOLICITAT
14.	Sistem de detecție a radiației ionizante în timp real cu protecție la zgomot electromagnetic	Patent Application No. A/00920 OSIM, Bucharest, 27/11/2015	<u>T. Lucian, M. Ganciu Petcu, O. Stoican, I. Bărbuț, G. B. Butoi, O. Dănilă, C. Diplășu, A. Groza, B. Mihalcea and A. Surmeian</u>	SOLICITAT



15.	Method for testing components, circuits and complex systems using synchronized and pulsed fluxes consisting of laser accelerated particles	Patent No. WO2015030619-A1, WO2015030619-A4	M. Ganciu-Petcu, M.-I. Piso, O. Stoican, B. Mihalcea, C. Diplășu, O. Marghitu, A. Julea, A. Surmeian, A. Groza, R. Dabu and I. Morjan	SOLICITAT
16.	Metodă pentru testarea de componente, circuite și sisteme complexe utilizând fluxuri sincronizate și pulsate de particule accelerate laser	Brevet Nr. RO130134-A2	M. Ganciu-Petcu, M.-I. Piso, O. Stoican, B. Mihalcea, C. Diplășu, O. Marghitu, A. Julea, A. Surmeian, A. Groza, R. Dabu and I. Morjan	ACORDAT
17.	Method and equipment for the evaluation of spectral responsivity of IR detectors subjected to ionizing radiation	Cerere A/00380/ 08.06.2015	Dan Sporea, Adelina Sporea, Laaura Mihai	SOLICITAT
18.	Fiber optics dosimeter for ionizing radiation intended to measure in real time the dose rate and the total dose in case of irradiation with radiation	RO129959-A2	Dan Sporea, Adelina Sporea, Laaura Mihai	ACORDAT
19.	Method and Apparatus for Detecting Charged Particle Beams and for Dose measurement	RO130135-A2	Dan Sporea, Laura Mihai, Adelina Sporea, Ion Vata, Ion Rusen	ACORDAT
20.	Set educațional pentru ultrasunete	A/00369	Sporea A; Sporea D; Iacob C; Ciupitu M	SOLICITAT
21.	Sursa de plasmă rece cu două jeturi planare și injecție de gaze pentru depunerea de straturi subțiri, corodarea, curățarea și funcționalizarea suprafețelor la presiune atmosferică	Patent No.: A/00864 (19.11.2015 data depunerii/inregistrării)	Gheorghe Dinescu Maximilian Teodorescu, Cristian Stancu, Eusebiu-Rosni Ionita	SOLICITAT
22.	SISTEM DE DETECTIE A RADIAȚIEI IONIZANTE IN TIMP REAL CU PROTECȚIE LA ZGOMOT ELECTROMAGNETIC	inregistrare A/00920 din 27-11-2015	TUDOR LUCIAN, GANCIU-PETCU MIHAI, STOICAN OVIDIU-SORIN, BARBUT Iulia, BUTOI	



			Bogdan, DĂNILĂ OCTAVIAN, DINCĂ PAUL, DIPLAȘU CONSTANTIN, GROZA ANDREEA- LILIANA, MIHALCEA Bogdan-Vasile, SURMEIAN Agavni	SOLICITAT
23.	METHOD AND DEVICE FOR PULSED-LASER MASS SPECTROMETRY ",	numar cerere brevet RO20130000964 20131204, informatii publicare RO130531 (A2)/2015-08-28 conform http://worldwide.e spacenet.com/	POPESCU AURELIAN, SURMEIAN AGAVNI, DIPLASU CONSTANTIN, SAVASTRU DAN, GROZA ANDREEA, TAUTAN MARINA, TENCIU DANIEL, MICLOS SORIN, GANCIU MIHAI	ACORDAT
24.	"TESTING PROCESS FOR COMPLEX SYSTEMS AND COMPONENTS USING PULSED AND SYNCHRONIZED FLOWS OF LASER-ACCELERATED PARTICLES",	numar cerere brevet RO20130000643 20130828, informa tii publicare RO130134 (A2) 2015-03-30, conform http://worldwide.e spacenet.com/	GANCIU PETCU MIHAI, PISO MARIUS IOAN, STOICAN OVIDIU-SORIN, MARGHITU OCTAV, DABU RAZVAN-VICTOR- ANTON, SURMEIAN AGAVNI, JULEA ANDREEA-MARIA, MIHALCEA BOGDAN- VASILE, GROZA ANDREEA-LILIANA, DISPLASU CONSTANTIN, MORJ AN ION	ACORDAT
25.	Procedeu de structurare a suprafetelor cu radiație laser prin efect de intensificare optică în câmp apropiat	127505/30.06.2013	Marian Zamfirescu, Florin Jipa, Iulia Anghel	ACORDAT
26.	Dispozitiv pentru analiza calității smalțului dentar prin spectroscopia Raman	RO 2013 00043 U1 / 30.10.2015, BOPI nr. 10/2015	Gatin Gheorghe Eduard, Sfetcu Ionela-Ruxandra, Luculescu Catalin- Romeo,	ACORDAT

**Anexa 5: Listă produse/servicii/tehnologii rezultate din activitățile de cercetare bazate pe brevete, omologări sau inovații proprii**

Nr. Crt.	Produs/serviciu/ tehnologie	Date tehnice	Domeniu de utilizare
1.	Cresterea prin metoda Czochralski a unui cristal de tip $Ba_{1-x}Sr_xTiO_3$	Contract: 2/29.07.2015 <u>Executant</u> : INCDFLPR - Laboratorul ECS <u>Beneficiar</u> : Institutul Național de Cercetare-Dezvoltare pentru Fizica Materialelor, Str. Atomistilor 105 bis, 077125 Magurele, Ilfov Valoare: 8.999.99 lei / 2015	Feroelectricitate
2.	Tehnologie de laborator pentru generare de microjeturi, nanopicături și aerosoli conținând medicamente prin interacția unui fascicul laser pulsant cu micropicături generate din soluții apoase de medicament	Lungimea de undă de iradiere / 532 nm; Domeniu de energii / 1 – 7 mJ; Densități de putere / 3.5 - 13 GW/cm ² ; Volumele picaturilor – tinta / 3.5 – 7 μl; Domeniul de concentrații ale soluțiilor: 9 – 60 mg/ml.	Optofluidică, Biofizică, Științele vieții, Protecția Mediului
3.	Tehnologii de laborator pentru determinarea dimensiunilor liniare și volumetrice ale microjeturilor, nanopicaturilor și aerosolilor generați prin interacția unui fascicul laser pulsant cu soluții apoase	(a) microjeturi; nanopicături / ordinul de mărime al dimensiunilor ~10μm (volum ~ nL) / tehnica utilizată: analiza formei picaturii utilizând o cameră ultra-rapidă; (b) aerosoli / domeniul de valori ale dimensiunilor ~ 11 – 50nm (volum ~pl) / tehnica utilizată: analiza diferențială a mobilității aerosolilor.	Optofluidică, Biofizică, Științele vieții, Protecția Mediului
4.	Metode de măsurare în timp real al ariei efective și duratei efective a spotului laser implementate în cadrul stației automate de testare a componentelor optice în câmp laser intens	-Opt.Eng.53(12),doi: 10.1117/1.OE.53.12.1225131 - Opt. Eng. 52(5), doi: 10.1117/1.OE.52.5.05420	Teste privind comportarea componentelor optice în câmp laser intens conform Standardului ISO 21254-2 conform contractului economic 7/2013



5.	Platforma educațională colaborativă	Permite dezvoltarea de proiecte educaționale în format colaborativ (http://89.34.160.17/ibest/) Peste 13900 de vizitatori	Educație în domeniul științelor în învățământul preuniversitar
6.	Fabricarea cu plasmă și livrarea de pulberi nanometrice din tungsten	Contract economic cu Universite D'Aix Marseille, Franța, în valoare de 15000 Euro – pulberi de tungsten cu dimensiuni de circa 100 nm fabricate cu metoda Gas Aggregation Magnetron Sputtering. Autori: Dinescu Gheorghe, Acsente Tomy	- Cercetarea de fuziune nucleară - Cercetare de toxicologia pulberilor
7.	Fabricarea și livrarea unei surse de plasmă tip jet de plasmă cu funcționare la presiune atmosferică	Sursa generatoare de plasma rece, de putere mică dedicată aplicațiilor în biologie și nanotehnologie Contract economic; - 210/2015-1108, 18 iunie 2015, 200075/19 iunie 2015, 2450 Euro Beneficiar Institute of Nanoscience&Nanotechnology NCSR "Demokritos", Aghia Paraskevi, Attiki, Greece Autori: Ionita Eusebiu Rosini; Dinescu Gheorghe	- Cercetări privind nanostructurarea suprafețelor
8.	Servicii	Depunere straturi subțiri protectoare, aderente, firma Luxurymanagement, Germania,	Protecție intemperii
9.	Mechanical Properties and Stability of Co-deposited Beryllium Layers	Producerea de filme de beriliu cu grosimi de 5 și 50 um cu incluziuni de deuteriu. Studiul proprietăților mecanice și stabilitatea straturilor depuse. Caracterizări de duritate și de laminare corelate cu caracteristicile structurale și morfologice.	Interacție plasma perete
10.	Serviciu	Debitare 40 discuri cu diametrul de 100 +/-0,1 mm	Industria aeronautică (Institutul Național Cercetare-Dezvoltare Aerospațiale)



Anexa 6: Lista lucrări științifice/tehnice în reviste fără cotație ISI

Nr. Crt.	Titlu	Revista, vol., pg., anul	Autori
1.	Contribution to the theoretical investigation of electron and photon interaction with carbon atom and its ions	I.O.P. J . Phys. Conf. Ser. 576 : 012010 (2015)	V Stancalie
2.	Analysis of cumulative versus ISO-recommended calculation of damage probability using a database of real S-on-1 tests	Proc. SPIE 9632, Laser-Induced Damage in Optical Materials: 2015, 96321H (23 November 2015); doi: 10.1117/12.2194303	A.Zorila, A.Stratan, I.Dumitrache, L.Rusen, G.Nemes
3.	Focusing criterion in digital holographic microscopy image reconstruction,	ADVANCED TOPICS IN OPTOELECTRONICS, MICROELECTRONICS, AND NANOTECHNOLOGIES VII, Proceedings Of SPIE, Volume: 9258, Article Number: 92580U, Published: 2015	Mihailescu, M; Mihale, N; Popescu, RC ; Acasandrei, A; Paun, IA ; Dinescu, M; Scarlat, E;
4.	Efectele tigarilor electronice si traditionale asupra sanatatii	REVISTA STIINTA & TEHNICA 44 martie, 046-049 (2015).	Popa, C; Bratu,A; Petrus, M;Băniță,S; Patachia, M; Matei, C; Dumitraș, DC;
5.	Biomedical applications of CO2 laser photoacoustic spectroscopy	Recent Advances on Biomedical Sciences,Recent Advanced in Biology and Biomedicine Series 9, Editor: Carlos M. Travieso-Gonzalez, Published by WSEAS Press, ISSN: 1790-5125, ISBN: 978-1-61804-334-4,vol. 9, pp. 72-75, (2015),	Popa, C;Petrus,M; Bratu AM;
6.	Oxidative Stress in Diabetes: Ammonia Breath Analysis by Laser Photoacoustic Spectroscopy	Recent Advances on Biomedical Sciences, Recent Advanced in Biology and Biomedicine Series 9, Editor: Carlos M. Travieso-Gonzalez, Published by WSEAS Press, ISSN: 1790-5125, ISBN: 978-1-61804-334-4, vol. 9, pp. 61-64, (2015),	Petrus,M; Bratu AM; Popa, C;
7.	Processes affecting the efficiency of limestone in passive treatments for AMD: Column experiments,	Journal of Environmental Chemical Engineering, 3 (1), pp. 304-316. (2015)	Offeddu, F.G., Cama, J., Soler, J.M., Dávila, G., McDowell, A., Craciunescu, T., Tiseanu, I.,
8.	Effects of the resonant magnetic perturbation on turbulent transport	electronic preprint http://arxiv.org/abs/1512.00722	M. Vlad, F. Spineanu
9.	F. Spineanu, M. Vlad,	electronic preprint	M. Vlad, F. Spineanu



	Geometrical aspects of the interaction between expanding clouds and environment	http://arxiv.org/abs/1508.04240	
10.	The filamentation of the laser beam as a labyrinth instability	http://arxiv.org/abs/1506.04245	M. Vlad, F. Spineanu
11.	Effect of density changes on tokamak plasma confinement	http://arxiv.org/abs/1502.06093	M. Vlad, F. Spineanu
12.	A MHD invariant with effects on the confinement regimes in Tokamak	http://arxiv.org/submit/1431634	M. Vlad, F. Spineanu
13.	Influence of support conditions and temperature on the EMI characteristics	J. Phys.: Conf. Ser. 628 012112, doi:10.1088/1742-6596/628/1/012112, http://iopscience.iop.org/1742-6596/628/1/012112;jsessionid=8DD187AFF7EF5B163158C8493C6D5D25.c5 .	A. Stancalie, D. Sporea, P. Malinowski, M. Mieloszyk, S. Opoka, T. Wandowski, W. Ostachowicz
14.	General two -photons non-Fourier model for weak laser-solid interaction	JOURNAL OF INTENSE PULSED LASERS AND APPLICATIONS IN ADVANCED PHYSICS Volume: 5 (1) Pages: 5-8 Published: 2015	M. Oane, I.N. Mihăilescu, C.M. Ticoș, N. Banu, L.M. Mitu, I. Negut, N. Mihăilescu, D. Ticos
15.	Influence of support conditions and temperature on the EMI characteristics	J. Phys.: Conf. Ser. 628 012112	A. Stancalie, D. Sporea, P. Malinowski, M. Mieloszyk, S. Opoka, T. Wandowski, W. Ostachowicz
16.	Ionization chamber dosimetry for conventional and laser-driven clinical hadron beams	Journal of Biosciences and Medicine, vol. 3, pg. 8-17, 2015	Scarlat, F; Scarisoreanu, A; Badita, E; Vancea, C; Calina, I; Scarlat, F; Verga, N
17.	Influence of high energy ionizing radiation on single mode optical fiber properties	Proceedings of the third International Conference on Radiation and Applications in Various Fields of Research, pg. 41-45, anul 2015	Badita, E; Stancu, E; Vancea, C; Scarlat, F; Calina, I; Scarisoreanu, A
18.	STARDOOR performance evaluation through bilateral comparisons	Proceedings of the fifth International Proficiency Testing Conference, pg. 174 - 179, anul 2015	Stancu, E; Badita, E; Vancea, C; Calina, I; Scarisoreanu, A; Scarlat, F



Anexa 7: Listă comunicări științifice prezentate la conferințe internaționale

Nr. Crt.	Titlul comunicării/ tip prezentare	Conferința, locul, țară, data	Autori
1.	Novel Thin Disk Lens Shaped Composite Nd:YAG/YAG Ceramic Laser; oral presentation	CLEO Europe - EQEC 2015 Conference, 21-25 June 2015, München, Germany; presentation CA-10.4	T. Dascalu, A. Ionescu, G. Salamu, O. Grigore, M. Dinca, F. Voicu, C. Brandus, and N. Pavel
2.	Automobile Engine Ignition by a Passively Q-switched Nd:YAG/Cr ⁴⁺ :YAG Laser; oral presentation	CLEO Europe - EQEC 2015 Conference, 21-25 June 2015, München, Germany; presentation CA-5b.2	N. Pavel, T. Dascalu, M. Dinca, G. Salamu, N. Boicea, and A. Birtas
3.	Evaluation of co-doped Lu ³⁺ , Nd ³⁺ :GdCa ₄ O(BO ₃) ₃ single crystal, a potential self-doubling material with emission in green spectral range; poster presentation	CLEO Europe - EQEC 2015 Conference, 21-25 June 2015, München, Germany; presentation CA-P.32	C.A. Brandus, L. Gheorghe, A. Achim, G. Stanciu, and T. Dascalu
4.	Diode-Pumped Laser Emission from Depressed Cladding Waveguides Inscribed in Nd-doped Media by Femtosecond Laser Writing Technique; poster presentation	CLEO Europe - EQEC 2015 Conference, 21-25 June 2015; München, Germany, presentation CA-P.29	G. Salamu, N. Pavel, T. Dascalu, F. Jipa, and M. Zamfirescu
5.	High-Peak Power Passively Q-switched Nd:YAG/Cr ⁴⁺ :YAG Lasers for Successful Ignition of an Automobile Engine; invited presentation	The 15 th International Balkan Workshop on Applied Physics, July 2-4, 2015, Constanta, Romania; presentation S2-L3, Book of Abstracts, pgs. 80-81	N. Pavel, G. Salamu, O. V. Grigore, M. Dinca, T. Dascalu, N. Boicea, and A. Birtas
6.	Upconversion luminescence in CaSc ₂ O ₄ codoped with Er ³⁺ and Yb ³⁺ ; oral presentation	The 8 th International Conference on Advanced Materials, ROCAM 2015, 7-10 July 2015, Bucharest, Romania	A. Stefan, S. Georgescu, O. Toma, C. Matei
7.	Development of new nonlinear optical crystals for efficient blue laser sources; oral presentation	The 8 th International Conference on Advanced Materials, ROCAM 2015, 7-10 July, Bucharest, Romania	A. Achim, L. Gheorghe, and F. Voicu
8.	Growth and characterization of Sm: ASL crystals for visible lasers; oral presentation	The 8 th International Conference on Advanced Materials, ROCAM 2015, 7-10 July, Bucharest, Romania	L. Gheorghe, A. Achim, F. Voicu, G. Stanciu, and C. Gheorghe
9.	High energy, high-peak power passively Q-switched Nd:YAG/Cr ⁴⁺ :YAG composite ceramic laser; poster presentation)	ROMOPTO 2015, 11 th International Conference on Optics "Micro- to Nano-Photonics IV", September 1-4, 2015, Bucharest, Romania; presentation I.P.1	G. Salamu, O. Grigore, T. Dascalu, and N. Pavel



10.	Depressed-cladding waveguides inscribed in Nd:YAG and Nd:YVO ₄ by femtosecond-laser writing technique. Realization and laser emission,"; invited presentation	ROMOPTO 2015, 11 th International Conference on Optics "Micro- to Nano-Photonics IV", September 1-4, 2015, Bucharest, Romania; presentation I.I.7	N. Pavel, G. Salamu, F. Voicu, O. Grigore, T. Dascalu, F. Jipa, and M. Zamfirescu
11.	High-Intensity THz Pulses: Generation and Applications; invited presentation	ROMOPTO 2015, 11 th International Conference on Optics "Micro- to Nano-Photonics IV", September 1-4, 2015, Bucharest, Romania; presentation I.I.4	T. Dascalu, A. Popa, O. Grigore, M. P. Dinca, G. Cojocaru, R. Ungureanu, and D. F. Mihailescu
12.	Luminescence properties of CeO ₂ doped with Ln ions under optical and X-ray excitation modes; oral presentation	The 4th International Conference on the Physics of Optical Materials and Devices, ICOM 2015, 31 August - 04 September 2015, Budva, Montenegro; Book of Abstracts, ISBN: 978-86-7306-134-4, p. 53, presentation S9-O30-165	D. Avram, B. Cojocaru, M. Florea, V. Parvulescu, and C. Tisceanu
13.	Spectroscopic and de-excitation properties of (Cr, Nd):YAG ceramics; poster presentation	9th International Conference on F-Elements, 06 - 09 September 2015, UK, Oxford	V. Lupei, A. Lupei, C. Gheorghe, and A. Ikesue
14.	Compositional disorder effects in the spectra of Nd ³⁺ in Y ₃ Sc _x Al _{5-x} O ₁₂ ceramics; poster presentation	9th International Conference on F-Elements, 06 - 09 September 2015, UK, Oxford	V. Lupei, A. Lupei, S. Hau, C. Gheorghe, and F. Voicu
15.	Advanced NLO Crystals for Efficient Blue Laser Sources Based on SHG Processes; poster presentation	Advanced Solid State Lasers Conference and Exhibition (ASSL), 04 - 09 October 2015, WISTA-Technology Park, Adlershof-Berlin, Germany; presentation ATu2A.3	L. Gheorghe, A. Achim, F. Voicu, and G. Stanciu
16.	Laser Ignition of an Automobile Engine by a High-Peak Power Nd:YAG/Cr ⁴⁺ :YAG Laser; poster presentation	Advanced Solid State Lasers Conference and Exhibition (ASSL), 04 - 09 October 2015, WISTA-Technology Park, Adlershof-Berlin, Germany; presentation ATh2A.2	N. Pavel, T. Dascalu, M. Dinca, G. Salamu, N. Boicea, and A. Birtas
17.	On the crystal growth of incongruent borate type crystal La _x Gd _y Sc _z (BO ₃) ₄ (x + y + z = 4) by Czochralski method; oral presentation	Fifth European Conference on Crystal Growth, ECCG 2015, 9-11 September 2015, Bologna, Italy	L. Gheorghe, F. Voicu, G. Salamu, F. Khaled, A. Achim, C. Gheorghe, P. Loiseau, N. Pavel, and G. Aka
18.	Crystal growth and characterization of an oxy-fluoride crystal (BaCaBO ₃ F) doped with Yb ³⁺ ions for self-frequency doubling: a thrilling challenge; poster presentation	Fifth European Conference on Crystal Growth, ECCG 2015, 9-11 September 2015, Bologna, Italy	F. Khaled, S. Sattayaporn, P. Loiseau, G. Aka, and L. Gheorghe
19.	Compositional dependence of optical properties of Sm ³⁺ -doped Y ₃ Sc _x Al _{5-x} O ₁₂ polycrystalline ceramics; poster presentation	4 th International conference on RARE EARTH MATERIALS, REMAT 2015, 26-28 October 2015, Wroclaw, Poland	C. Gheorghe, A. Lupei, S. Hau, F. Voicu, A. M. Vlaicu, M. Enculescu, and L. Gheorghe



20.	Optical properties of Sm^{3+} : CLNGG polycrystalline ceramics; poster presentation	4 th International conference on RARE EARTH MATERIALS, REMAT 2015, 26-28 October 2015, Wroclaw, Poland	S. Hau, C. Gheorghe, A. Lupei, and L. Gheorghe
21.	X-ray and UV to NIR optical excitation of luminescence in doped nanoparticles for bioimaging, spectral converters and telecommunication; poster presentation	PRORA 2015, The 8th congress on X-ray analytics for industrial processes, 12 - 13 November 2015, Berlin, Germany	D. Avram, C. Tiseanu, and I. Tiseanu
22.	Synthesis of calcium doped strontium barium niobate; poster presentation	The fourth edition of the International Colloquium 'Physics of Materials' - PM-4 2014, 13-14 November, UPB, Bucharest, Romania	G. Stanciu, V. Ion, N. D. Scarisoreanu, E. Andronescu, and M. Dinescu
23.	Efficient Laser Emission from Waveguides Inscribed in Nd-doped Media by Femtosecond-Laser Writing Technique; poster presentation	Participare la "Siegman International School on Lasers: 2015", 02-07 August 2015, Amberg, Germania	G. Salamu, F. Voicu, F. Jipa, M. Zamfirescu, T. Dascalu, N. Pavel
24.	Method for Generation Multiple High-Intensity THz Pulses within 1-100 ps Time Range; invited presentation	Joint MP1204 and NATO Workshop - 3 to 6 November 2015 Izmir, Turkey	T. Dascalu
25.	Spectral identification of x-ray transitions from autoionizing levels in dense laser-produced aluminum plasmas	1st European Plasma Physics Diagnostics Conference 14-17 April 2015, Frascati, Italia	C. Iorga, V. Stancalie
26.	Effects of quantum interference between radiative and dielectronic recombination on photo-recombination cross-section profiles for the Be-like ions Al^{9+} and C^{2+}	7th Int Conf on The Frontiers in Plasma Physics and Technology,(FPPT) 13-17 April 2015, Kochi, India	V Stancalie
27.	Ionization Dynamics of ultra intense laser irradiated Aluminum target	7th Int Conf on the Frontiers in Plasma Physics and Technology,(FPPT) 13-17 April 2015, Kochi, India	C. Iorga, V. Pais, T. Desai, V. Stancalie,
28.	Theoretical investigation of inner-shell photo-ionization x-ray lasing	Int Conf on Micro-nano Photonics IV" ROMOPTO2015, 1-4 Septembrie Bucuresti, Romania	V. Stancalie, C. Iorga, V. Pais,
29.	Energy levels and radiative rates for transitions in Cr-like CoIV and Ni V ,	ADAS, 19th International Workshop 30 Sept-2 Oct 2015, INAF-Observatorio di Astrofisico di Catania, Sicily, Italy	K. Aggarwal, P. Bogdanovich, R. Karpuskiene, F. Keenan, R. Kisielius, V.



			Stancalie,"
30.	A New Approach to Theoretical Investigations of High Harmonics Generation by Means of fs Laser Interaction with Overdense Plasma Layers. Combining Particle-in-Cell Simulations with Machine Learning/ ORAL	7th Plasma Physics by Laser and Applications Conference, Frascati, Italia, 5-7 octombrie 2015	A. Mihailescu
31.	Stepping Up Theoretical Investigations of Ultrashort and Intense Laser Pulses Interaction with Overdense Plasmas. Combining Particle-in-Cell Simulations with Machine Learning and Big Data/ ORAL	ROLCG 2015 Conference- Grid, Cloud and High-Performance Computing in Science, Cluj, Romania, 28-30 octombrie 2015	A. Mihailescu
32.	Measurement of nonlinear optical parameters by interferometric methods Invited paper	The Twelfth International Conference "Correlation Optics 2015", Chernivtsi, Ukraine, Sep. 14-18, 2015	A. Petris
33.	Interferometric method for the study of spatial phase modulation induced by light in dye-doped DNA complexes Invited paper	11-th International Conference on Optics "Micro- to Nano-Photonics IV" ROMOPTO 2015, Bucharest, Romania, Sept. 1-4, 2015	A. Petris, P. Gheorghe, V. I. Vlad, I. Rau, F. Kajzar
34.	Coherent yellow light emission in Rh610-doped DNA-CTMA Poster	11-th International Conference on Optics "Micro- to Nano-Photonics IV" ROMOPTO 2015, Bucharest, Romania, Sept. 1-4, 2015	T. Bazaru Rujoiu, A. Petris, V. I. Vlad, I. Rau, A.-M. Manea, F. Kajzar
35.	Analysis of the recording process of laser induced gratings in dye-doped DNA Poster	11-th International Conference on Optics "Micro- to Nano-Photonics IV" ROMOPTO 2015, Bucharest, Romania, Sept. 1-4, 2015	P. Gheorghe, A. Petris, V. I. Vlad, I. Rau, F. Kajzar, A. M. Manea
36.	Quartz Love Wave Surface Acoustic Waves Sensors for Biological Applications/ Poster	International Conference on Chemical and Biochemical Engineering, Paris, France, 20-22 July, 2015	C. Viespe
37.	On Si/SiO ₂ QDS biocompatibility/POSTER	ROMOPTO 2015, Romania, 1-4 sept 2015	Loredana Stanca, Cornelia Sima, Andreea Iren Serban, Anca Dinischiotu,
38.	A transcriptional and translational approach of silica nanoparticles exposure to human lung fibroblasts/ POSTER	40th Congress of the Federation-of-European-Biochemical-Societies (FEBS) - The Biochemical Basis of Life Location: Berlin, GERMANY Date: JUL 04-09, 2015	Voicu SNP, Sima Cornelia, Hermenean, A, Ardelean A, Codrici E, Tanase C, Dinischiotu A



		Publicat in: FEBS JOURNAL Volume: 282 Special Issue: SI Supplement: 1 Pages: 96-97 Meeting Abstract: P04-028 Published: JUL 2015	
39.	RAW 264.7 response to quantum dots generated ROS decides cellular fate: activation versus necrosis/POSTER	40th Congress of the Federation-of-European-Biochemical-Societies (FEBS) - The Biochemical Basis of Life Location: Berlin, GERMANY Date: JUL 04-09, 2015 Publicat in: FEBS JOURNAL Volume: 282 Special Issue: SI Supplement: 1 Pages: 120-120 Meeting Abstract: P10-036 Published: JUL 2015	Stanca L, Serban AI, Sima Cornelia, Dinischiotu A
40.	Analysis of the molecular mechanisms involved in the control of lung fibroblasts growth during exposure to silicon-based quantum dots"/ POSTER	40th Congress of the Federation-of-European-Biochemical-Societies (FEBS) - The Biochemical Basis of Life Location: Berlin, GERMANY Date: JUL 04-09, 2015, Publicat in: FEBS JOURNAL Volume: 282 Special Issue: SI Supplement: 1 Pages: 225-225 Meeting Abstract: P11-018 Published: JUL 2015	Stan MS, Badea S, Sima Cornelia, Dinischiotu A,
41.	„New insights into the cell death signaling pathways triggered by longterm exposure to silicon-based quantum dots in lung fibroblasts”, 2015	J-5 - pag 335, 23rd congress of the international union for biochemistry and molecular biology (IUBMB) and 44th annual meeting of the brazilian society for biochemistry and molecular biology (SBBq) “Biochemistry for a better world” Foz do Iguacu, Parana, Brazil, August 24- 28,	Stan M, Badea S, Sima C, Dinischiotu A,
42.	Chemotherapy and collateral damage: oxidative stress analysis by laser photoacoustic spectroscopy Oral	11th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", Bucharest, Romania, September 1 - 4, 2015.	M. Petrus (Bercu), A.M. Bratu, C. Popa (Achim)
43.	Hybrid imaging method for non-invasive characterization of oncological targeted tissues Oral	11th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", Bucharest, Romania, September 1 - 4, 2015.	C. E. Matei, M. Patachia, S. Banita
44.	Photoacoustic spectroscopy for non-invasive analysis of human respiration Oral	11th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", Bucharest, Romania, September 1 - 4, 2015.	C.Popa (Achim), M. Petrus, A. M. Bratu



45.	Oxidative stress in diabetes: ammonia breath analysis by laser photoacoustic spectroscopy Lectie invitata	HSBS'15 4 th International Conference on Health Science and Biomedical Systems, Sliema, Malta 17-19 August 2015.	M. Petrus (Bercu), A.M. Bratu, C. Popa (Achim)
46.	Biomedical Applications of CO2 Laser Photoacoustic Spectroscopy lectie Invitata	HSBS'15 4 th International Conference on Health Science and Biomedical Systems, Sliema, Malta 17-19 August 2015.	C.Popa (Achim), M. Petrus, A. M. Bratu
47.	Spectroscopic analysis of humans breath in subjects with type 2 diabetes Oral	International Conference ALT'15 Advanced Laser Technologie, Faro, Portugalia, 7-11 September 2015.	M. Petrus (Bercu), A.M. Bratu, C. Popa (Achim), S. Banita, M. Patachia, C. Matei, D.C.Dumitras
48.	The effects of air pollution and UV-B radiation on fruits using LPAS method Poster	International Conference ALT'15 Advanced Laser Technologie, Faro, Portugalia, 7-11 September 2015.	S. Banita, M. Patachia, D.C Dumitras, C. Achim, M. Bercu, A.M. Bratu, C. Matei
49.	New optical imaging system for intraoperative detection of tumors margins poster	International Conference ALT'15 Advanced Laser Technologie, Faro, Portugalia, 7-11 September 2015.	M. Patachia, S. Banita, C. Matei, M. Petrus, C. Achim, A. Bratu, D.C. Dumitras
50.	Non-invasive evaluation of breath biomarkers in oxidative stress using photoacoustic spectroscopy Lectie invitata	International Conference ALT'15 Advanced Laser Technologie, Faro, Portugalia, 7-11 September 2015.	D. C. Dumitras, M. Petrus, A. M. Bratu, M. Patachia, S. Banita, C.Popa (Achim),
51.	Photoacoustic assessment of electronic versus traditional cigarettes on human health Oral	24th International Laser Physics Workshop, Shanghai, China, August 21-25.	C. Popa (Achim), M. Petrus, M. Patachia, S. Banita, D.C. Dumitras
52.	Laser spectroscopy for noninvasive gas monitoring in patients with dysfunctions Poster	COLA 2015 – International Conference on Laser Ablation, Cairns, Australia, 31 August-4 September 2015.	C. Popa, M. Petrus, A.M. Bratu, M. Patachia, S. Banita, C. Matei, D.C. Dumitras
53.	Spectroscopic analysis of the breath from subjects with type 2 diabetes Poster	COLA 2015 – International Conference on Laser Ablation, Cairns, Australia, 31 August-4 September 2015.	M. Petrus, C. Achim, A.M. Bratu, S. Banita, M. Patachia, C. Matei, D.C. Dumitras
54.	Laser photoacoustic technology for measurement of gas ablation products at sub-ppb level", Poster	COLA 2015 – International Conference on Laser Ablation, Cairns, Australia, 31 August-4 September 2015.	D.C. Dumitras
55.	Dual Imaging System for Assessment of Tumor Positive Margin poster	Winter School "Light: a Bridge between Earth and Space: Winter College on Optics", 9-20 Feb. 2015, Abdus Salam International Centre	C. Matei



		for Theoretical Physics (ICTP) - Trieste, Italia	
56.	Combined OCT – Hyperspectral Imaging System for In-Situ Observation of Tumor Resection Margin Poster	8th International Summer School 'New Frontiers in Optical Technologies', 10-14 Aug. 2015, Tampere, Finlanda	C. Matei
57.	Characterization of nondiffracting beams	11th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015," (Bucharest, Romania, September 1-4, 2015)	Ștefan A. Amarande
58.	"Free-standing nanostructured Janus polymeric membranes and sandwich films containing surface-embedded inorganic nanoparticles"	4th Int. Conf. on Multifunctional, Hybrid and Nanomaterials HYMA 2015, Sitges (near Barcelona), Spain, March 9-13, 2015	C. Fleaca, I. Sandu, F. Dumitrache, C. Luculescu, E. Vasile
59.	"Rapid synthesis of nanoparticle-loaded polyacrylic acid/polyacrylates - based hybrid hydrogels and interpenetrated polymer network (IPN) hydrogels"	4th Int. Conf. on Multifunctional, Hybrid and Nanomaterials HYMA 2015, Sitges (near Barcelona), Spain, March 9-13, 2015	C. Fleaca, F. Dumitrache, C. Luculescu, E. Vasile
60.	"Thin films obtained from magnetic Fe(Co, Ni) – Sn – Ti mixed oxide nanoparticles made by glycine-mediated solid state combustion and deposited by MAPLE techniques"	E-MRS Spring Meeting, Lille, France, May 11-15, 2015	A.-M. Niculescu, C.T. Fleaca, M. Dumitru, C. Luculescu, E. Vasile, V. Kuncser, I. Morjan, M. Dinescu
61.	"Synthesis of ZnO-C nanoparticles by laser pyrolysis and solid state combustion"	E-MRS Spring Meeting, Lille, France, May 11-15, 2015	A. G. Ilie, L. Gavrilă, C. Fleaca, E. Popovici, I. Morjan
62.	"One-step synthesis of TiO ₂ /SnO ₂ nanocomposites and their photocatalytic performance"	E-MRS Spring Meeting, Lille, France, May 11-15, 2015	M. Scarisoreanu, C. Fleaca, I. Morjan, A.-M. Niculescu, C. Luculescu, I.P. Morjan, E. Dutu, A. Badoi, A. Ilie, E. Vasile, V. Danciu
63.	"Magnetic nanocomposite containing carbon encapsulated iron nanoparticles embedded in PANI matrix"	E-MRS Spring Meeting, Lille, France, May 11-15, 2015	C.T. Fleaca, F. Dumitrache, I. Morjan, C. Luculescu, A.-M. Niculescu, A. Ilie, I. Stamatina, A. Iordache, E. Vasile, G. Prodan
64.	"Iron oxide nanoparticles synthesized by laser pyrolysis with modified surfaces design for bio-functionalization purposes"	E-MRS Spring Meeting, Lille, France, May 11-15, 2015	A. Badoi, F. Dumitrache, C. Fleaca, I. Morjan, L. Gavrilă, M. Scarisoreanu, N. Mihailescu, C.



			Luculescu, E Dutu, A. Ilie, G. Manda, A. Cucu, L. Vekas, I. Ciuca
65.	"Iron/carbon based composite nanoparticles with a high magnetic response synthesized by laser pyrolysis"	E-MRS Spring Meeting, Lille, France, May 11-15, 2015	F. Dumitrache, R. Alexandrescu, I. Morjan, C. Fleaca, G. Huminic, L. Vekas, E. Vasile
66.	"Fe/Co doped tin-based nanoparticles synthesized by laser pyrolysis"	E-MRS Spring Meeting, Lille, France, May 11-15, 2015	E. Dutu, F. Dumitrache, C. Fleaca, C. Vlaic, I. Morjan, A. Bund, A. Badoi, A.-M. Niculescu, I. P. Morjan, I. Sandu, E. Vasile
67.	"Iron/silicon/silica nanoparticles synthesized via laser pyrolysis technique and thermal treatment"	20th Int. Conf. on Magnetism, Barcelona, Spain, July 5-10, 2015	F. Dumitrache, C. Fleaca, I. Morjan, A. Badoi, A.-M. Niculescu, O. Marinica, L. Vekas, E. Vasile
68.	"Preliminary toxicological study of L-DOPA-coated iron oxide nanoparticles in mice"	13th Int. Congress of the European Association for Veterinary Pharmacology and Toxicology (EAVPT 2015), Nantes, France, 19-22 July, 2015., reported in J. Vet. Pharmacol Therapeutics 38 Pages: 158-159 Supplement: 1 Special Issue: SI Meeting Abstract: 14.11	L.I. Anghelache, M. Comanescu, F. Dumitrache, A. Badoi, C.T. Fleaca, B. Marinescu, S. Pop, G. Isvoranu, V. Nicorescu, M. Crivineanu
69.	"Thermal studies on iron-carbon based nanoparticles synthesized by laser pyrolysis using iron-pentacarbonyl and acrylic acid vapors as reactive mixture"	3rd Conf. of Central and Eastern European Committee for Thermal Analysis and Calorimetry (CEEC-TAC3), Ljubljana, Slovenia, August 25-28, 2015.	F. Dumitrache, A. Rotaru, C. Fleaca, I. Morjan, M. Dumitru, A. Ilie, E. Badoi, C. Luculescu, E. Vasile,
70.	"Characterization and photocatalytic properties of blue core-shell TiO ₂ /SiO ₂ /C nanocomposites obtained via laser pyrolysis"	11th Int. Conf. "Micro- to Nano-Photonics IV- ROMOPTO 2015", Bucharest, Romania, September 1-4, 2015	C. Fleaca, M. Scarisoreanu, I. Morjan, C. Luculescu, A.-M. Niculescu, A. Badoi, E. Vasile, V. Danciu
71.	Fabrication of large area polystyrene nanoparticle films through nanosphere lithography technique,	11th Int. Conf. "Micro- to Nano-Photonics IV- ROMOPTO 2015", Bucharest, Romania, September 1-4, 2015	I. Sandu, G. Cojocaru, I. Anghel, I. Urzica, C. Luculescu
72.	Preclinical investigation of new iron-oxide nanosystems-towards	27th Eur. Congress of Pathology, Belgrad, Serbia, 5-9 septembrie	M. V. Comanescu, G. Isvoranu, M.



	theranostic in cancer,	2015 ; Raportata in VIRCHOWS ARCHIV Volume: 467 Pages: S166-S166 Supplement: 1 Meeting Abstract: PS-10-034 Published: SEP 2015	Dobre, G. Manda, F. Dumitrache,
73.	Spectroscopy of very small volume samples: an emerging tool in optofluidics / Lecture	PolyNano Summer School 2015, Copenhaga, Danemarca, August 10-28, 2015	M.L. Pascu
74.	Stability evaluation of colloidal systems for medical treatments / oral	Annual Scientific Conference of Faculty of Physics, 19 iunie 2015, Magurele, Romania	V. Nastasa, A.Smarandache, K. Samaras, T. D. Karapantsios, M.L. Pascu,
75.	Enhanced Fluorescence Emission of Pendant Micro-Droplets Containing Emulsions / Poster	B&D 2015, Potsdam, Germany, 06-10 July 2015	V. Nastasa, M. Boni, I.R. Andrei, A. Staicu, M.L. Pascu,
76.	Assessment of colloidal systems stability in view of their use in medical treatments / poster	11 th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", Bucuresti, Romania, 1-4 septembrie 2015	V. Nastasa, A.Smarandache, K. Samaras, T. D. Karapantsios, M.L. Pascu
77.	Generation of photo-products with antimicrobial properties by exposing Phenothiazines to UV laser radiation / oral	6th Congress of International PhotoTherapy Association, Nisa, Franta, 9-10 iulie 2015	T. Tozar, A. Stoicu, V. Nastasa, M. Popa, I. R. Andrei, C. M. Chifiriuc, M.L. Pascu,
78.	Antimicrobial activity of UV photogenerated non-antibiotic drug in fighting multidrug resistance bacteria / poster	"New frontiers in regenerative medicine and surgery. Interdisciplinarity, research and clinical applications" Congress, Bucuresti, Romania, 12, 15- 16 May 2015	T. Tozar, A. Dinache, V. Nastasa, M. Boni, Á. Simon, M.L.Pascu,
79.	Spectroscopic and analytical studies of Thioridazine exposed to UV laser radiation and susceptibility of bacteria to the mixture of photo-products assay / oral	11 th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", Bucuresti, Romania, 1-4 septembrie 2015	T. Tozar, A. Stoicu, V. Nastasa, M. Popa, I. R. Andrei, C. M. Chifiriuc, M. L. Pascu,
80.	Cytotoxicity assay of four Phenothiazines exposed to 266 nm laser radiation for application in biomedical fibers / poster	11 th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", Bucuresti, Romania, 1-4 septembrie 2015	T. Tozar, M. C. Morán, A. Dinache, A. Smarandache, I. R. Andrei, A.Simon, M. Boni, F Cirisano, M. Ferrari, M. L. Pascu,
81.	Testing the susceptibility of bacteria in planktonic and biofilms forms to fenothiazines exposed to a 266 nm laser beam emitted by a Nd:YAG laser / oral	Annual Scientific Conference of Faculty of Physics, 19 iunie 2015, Magurele, Romania	T. Tozar, A. Stoicu, V. Nastasa, M. Popa, I. R. Andrei, M. C. Chifiriu, M. L. Pascu,



82.	Emission spectra of pendant droplets containing dye solutions and emulsions / oral	116th Annual Meeting of DGaO, Brno, Republica Cehă, 27 - 29 mai 2015	M. Boni, V. Nastasa, I.R. Andrei, A. Staicu, M.L. Pascu,
83.	Resonant interaction of laser beams with pendant droplets of emulsions / oral	3rd EOS Conference on Optofluidics (EOSOF 2015), Munchen, Germania, 21 - 24 iunie 2015	M. Boni, V. Nastasa, I.R. Andrei, A. Staicu, M.L. Pascu,
84.	Comparison between emission spectra of pendant droplets containing dye solutions and emulsions / oral	Annual Scientific Conference of Faculty of Physics, Magurele, Romania, 19 iunie 2015	M. Boni, V. Nastasa, I.R. Andrei, A. Staicu, M.L. Pascu,
85.	Interaction of laser beams with single droplets in pendant position / oral	3rd EOS Conference on Optofluidics (EOSOF 2015)", Munchen, Germania, 21 - 24 iunie 2015	Mihail Lucian Pascu, Ionut Relu Andrei, Mihai Boni, Viorel Nastasa, Ruxandra Pirvulescu,
86.	Laser photocatalytic effect of TiO ₂ nanoparticles for water pollutants removal / poster	Smart and green interfaces-Conference 2015, Belgrade, Serbia, 31 martie- 1 aprilie 2015	V. Nastasa, M. Boni, A. Smarandache, T. Alexandru, A. Staicu, I.R. Andrei, A. Dinache, Z. Saponjic, M.L. Pascu,
87.	Lasing emission by microdroplets of emulsion / oral	Smart and green interfaces-Conference 2015, Belgrade, Serbia, 31 martie- 1 aprilie 2015	M. Boni, V. Nastasa, I.R. Andrei, A. Staicu, M.L. Pascu,
88.	Photophysical studies of some compounds of interest in targeted drug delivery / invitata	11 th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", Bucuresti, Romania, 1-4 septembrie 2015	A. Staicu, A. Dinache, A. Smarandache, T. Tozar, A. Pascu, V. Nastasa, M. Boni, A. Simon, I. R. Andrei, M. Enescu, M. L. Pascu,
89.	Physical properties of laser irradiated sclerosing foams / oral	11 th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", Bucuresti, Romania, 1-4 septembrie 2015	Adriana Smarandache, Angela Staicu, V. Nastasa, J. Moreno-Moraga, J. Royo de la Torre, M. Trelles, M. L. Pascu,
90.	Lasing emission by side-pumped dye-doped droplets in pendant positions: modal structure / poster	11 th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", Bucuresti, Romania, 1-4 septembrie 2015	I.R. Andrei, M. Boni, A. Staicu, M.L. Pascu,
91.	Comparison of lasing emission of pendant droplets containing dye solutions and emulsions / poster	11 th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", Bucuresti, Romania, 1-4 septembrie 2015	M. Boni, V. Nastasa, I.R. Andrei, Angela Staicu, M.L. Pascu,
92.	Study of Vancomycin	Smart and green interfaces-	A. Dinache, M.



	photoproducts, precursors of foam generation / oral	Conference 2015, Belgrade, Serbia, 31 martie- 1 aprilie 2015	Boni, V.Nastase, M.Ferrari, M.L.Pascu
93.	Laser irradiated Polidocanol foam for sclerotherapy / oral	ISRMS, 12 & 15- 16 May 2015, Bucharest, Romania	Adriana Smarandache, Angela Staicu, V. Nastasa, J. Moreno-Moraga, J. Royo de la Torre, M. Trelles, M.L.Pascu,
94.	Spectroscopic investigations of new hydantoin derivatives and their behavior under laser beam exposure for further biomedical applications / oral	6th Congress of International PhotoTherapy Association, Nice, France, July 9-10, 2015	A. Smarandache, A. Pascu, M. Boni, I. Andrei, J. Handzlik, K. Kiec-Kononowicz, A. Staicu, M.-L. Pascu*,
95.	Lasing Emission by Side-pumped Emulsion Droplets in Pendant Positions / poster	Progress In Electromagnetics Research Symposium (PIERS 2015), Praga, Cehia, July 6 – 9, 2015.	M. Boni, I.R. Andrei, V. Nastasa, Angela Staicu, M.L. Pascu,
96.	Chaotic low-frequency fluctuations of the laser radiation emitted by a diode laser working at currents above the laser threshold / poster	Progress In Electromagnetics Research Symposium (PIERS 2015), Praga, Cehia, July 6 – 9, 2015.	I.R. Andrei, A. Baleanu, M.L. Pascu,
97.	Laser Beam Resonant Interaction of New Hydantoin Derivatives Droplets for Biomedical Applications / Poster	B&D 2015, Potsdam, Germany, 06-10 July 2015	Adriana Smarandache, M. Boni, V. Nastasa, I. R. Andrei, J. Handzlik, K. Kiec-Kononowicz, L. Amaral, M.L. Pascu;
98.	Investigations on the Interaction of Unexplored Hydantoin Derivatives Solutions with Optical Beams / Oral	Annual Scientific Conference of Faculty of Physics, Magurele, Romania, 19 iunie 2015	Adriana SMARANDACHE, Mihai BONI, Viorel NASTASA, Ionut R. ANDREI, Jadwiga HANDZLIK, Katarzyna KIEC-KONONOWICZ, Leonard AMARAL, Mihail Lucian PASCU;
99.	Stability of New Laser Produced Medicines in View of Their Application on Biomedical Fabrics / Oral	Annual Scientific Conference of Faculty of Physics, Magurele, Romania, 19 iunie 2015	Adriana SMARANDACHE, Agota SIMON, Andra DINACHE, Tatiana TOZAR, Mihai BONI, Ionut R. ANDREI, M. Carmen MORÁN, Francesca CIRISANO, Michele FERRARI, Mihail Lucian PASCU;



100.	Light exposure influence on the wetting properties of new imidazolidine derivatives solutions / poster	5th International Colloids Conference 2015 "Colloid and Interface Sciences for a Brighter Future", Amsterdam, Olanda, june 21-24, 2015	A. Smarandache, V. Nastasa, M. Boni, J. Handzlik, K. Kiec-Kononowicz, L. Amaral, M.L. Pascu;
101.	Experimental and model ir spectra of new hydantoin derivatives / POSTER	International Conference on Optics "Micro- to Nano-Photonics IV - ROMOPTO 2015, Bucharest, Romania, September 1 - 4, 2015	Stoicu Alexandru, Smarandache Adriana, Nastasa Viorel, Handzlik Jadwiga, Kiec-Kononowicz Katarzyna, Mihail-Lucian Pascu
102.	Studies on the laser induced emission of microdroplets containing Rhodamine 6G solutions in water doped with TiO2 nanoparticles / ORAL	Smart and green interfaces: Fundamentals and diagnostics (SGI-FunD), 29031 Octomber, Sofia, Bulgaria	Mihai Boni, Angela Staicu, Ionut Relu Andrei, Adriana Smarandache, Viorel Nastasa, Z. Saponjic, Mihail-Lucian Pascu
103.	Optically pumped microliter droplets as lasing sources in the visible spectral range / invitata	International Conference on Optics "Micro- to Nano-Photonics IV - ROMOPTO 2015, Bucharest, Romania, September 1 - 4, 2015	M.L. Pascu, M. Boni, I.R. Andrei
104.	Chaotic low-frequency fluctuations of the radiation emitted by a semiconductor laser working at currents above the laser threshold / ORAL	The 2015 Scientific Communications Session of Physics Faculty, University of Bucharest, Bucharest, Romania, June 19, 2015	I.R. Andrei, A. Baleanu, M.L. Pascu
105.	Quantification of Maltene and Asphaltene fractions from Crude Oils and polluted soils by Near-UV/Visible Absorption Spectroscopy / POSTER	16th European Conference on the Spectroscopy of Biological Molecules, 6-10 September 2015, Ruhr-University Bochum, Germany	POPESCU Roua Gabriela, CĂLBOREAN Octavian, ȘELESCU Richard Tudor, SMARANDACHE Adriana Loredana, PASCU Mihail-Lucian, STOIAN Gheorghe
106.	Biomedical applications of non-antibiotics exposed to uv laser radiation and their interaction with fabric surfaces / ORAL	ISRMS, 12 & 15- 16 May 2015, Bucharest, Romania	Agota Simon, Tatiana Tozar, M. Boni, V. Damian, Victoria Dutschk, M.L. Pascu
107.	Phenothiazines exposed to 266 nm laser beam in interaction with fabric surfaces, in view of biomedical applications / ORAL	116th Anual Meeting of DGaO, 27 - 29 May 2015, Brno, Czech Republic	A. Simon, T. Alexandru, M. Boni, V. Damian, A. Stoicu, V. Dutschk, M.L. Pascu
108.	Biomedical applications of laser exposed medicines containing solutions in interaction with target	Annual Scientific Conference of Faculty of Physics, 19 June 2015, Măgurele, Romania	Agota SIMON, Tatiana TOZAR, Alexandru STOICU,



	surfaces: ESA "Spin Your Thesis!" programme / ORAL		Mihai BONI, Victor DAMIAN, Mihail-Lucian PASCU
109.	Interaction of laser exposed non-antibiotic solutions with target surfaces, in view of biomedical applications: ESA "Spin Your Thesis!" campaign / ORAL	11th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", 1-4 September 2015, Bucharest, Romania	A. Simon, T. Tozar, A. Stoicu, M. Boni, V. Damian, M.L. Pascu
110.	Stability studies on Promethazine unexposed and exposed to UV laser radiation / ORAL	Optics - Photonics Conference, 8-12 August 2015, San Diego, USA	Agota Simon, Adriana Smarandache, Tatiana Tozar, Viorel Nastasa, Ruxandra Pirvulescu, Mihail Lucian Pascu
111.	Direct modification of photosensitive non-antibiotics by exposure to UV laser radiation and their interaction with target surfaces: New process for drug discovery and delivery in view of space mission applications / ORAL	Antibiotic resistance and antibiotic alternatives: Looking towards the future, 3-5 November 2015, London, UK	A. Simon, A. Stoicu, T. Tozar, I.R. Andrei, V. Damian, M.L. Pascu
112.	Laser induced emission of dye emulsion droplets / POSTER	Smart and green interfaces: Fundamentals and diagnostics (SGI-FunD), 29-31 October, Sofia, Bulgaria	M. Boni, V. Nastasa, I.R. Andrei, A. Staicu, M.L. Pascu
113.	Laser methods in fighting multiple drug resistance, "New frontiers in regenerative medicine and surgery / invitata	Interdisciplinarity, research and clinical applications" ISRMS Congress, 12 & 15- 16 May 2015, Bucharest, Romania.	M.L. Pascu, R. Pirvulescu, T. Tozar,
114.	Laser beams interaction with droplets in view of biomedical applications / invitata	6th Congress of International PhotoTherapy Association, 9-10 July 2015, Nice, France.	M.L. Pascu, R. Pirvulescu, M. Boni, I.R. Andrei,
115.	Experimental equipment for treatment with uncoherent light emitted in UV and visible / oral	6th Congress of International PhotoTherapy Association, 9-10 July 2015, Nice, France.	M.H. Kaleshtari, I. Ciobanu, D.C. Tranca, A. Palacean, A. Ghita, R. Pirvulescu, C. Pirvulescu, M.L. Pascu, M. Berteanu,
116.	Emission of laser/lasing radiation by optically pumped droplets in pendant position / oral	"Advances in optofluidics: Integration of optical control and photonics with microfluidics" COST Action MP1205 Conference and MC meeting, 7-8 May 2015, Porto, Portugal.	M.L. Pascu, M. Boni, I.R. Andrei,
117.	Wetting properties of medicines solutions exposed to laser beams and treated in hypergravity conditions / invitata	"Smart and green interfaces: Fundamentals and diagnostics" (SGI-FunD) Symposium, 29-31 October 2015, Sofia, Bulgaria.	A. Simon, A. Stoicu, I.R. Andrei, T. Alexandru, A. Staicu, A. Smarandache, M.L. Pascu



118.	Interaction of laser exposed Non-antibiotic solutions with target surfaces in hypergravity conditions: ESA "Spin Your Thesis!" campaign / oral	1st Symposium on Space Educational Activities, 9-12 December 2015, Padova, Italy.	A. Simon, A. Stoicu, T. Tozar, M.L. Pascu,
119.	Noise evaluation in Hadamard spectroscopy, IEEE International Symposium on Signals Circuits and Systems, Lisbon (2015)	IEEE International Symposium on Signals Circuits and Systems, Lisbon (2015)	C. C. Damian, A. Crisan, T. Vasile, D. Coltuc and V. Damian
120.	Hyperspectral System for Testing Emissive Photonic Elements,/ poster	The 38th International Semiconductor Conference (Cas 2015 –Ro)	V. Damian, T. Vasile, P.C. Logofatu,
121.	„Water vapor transmission spectra analyzed in a THz TDS system”,/ poster	ROMOPTO- conference, 1-4 sept, 2015, Bucuresti	V.Damian, T.Vasile, A.Stoicu
122.	PIC Simulations for Protons and Electrons Accelerations with the 1 PW Laser Pulse from CETAL Facility/poster	ROMOPTO 2015, Bucharest, Romania, September 1-4	O. Budriga, E. d'Humieres
123.	Spatial and temporal dynamics of few-cycles laser beams in dispersive media-Poster	ROMOPTO 2015, Bucharest, Romania, September 1-4	Ionel L., Anghel I.
124.	Design of periodic structures in a multiple beam interference scheme-Poster	8th International Summer School "New Frontiers in Optical Technologies", 10-14 August, 2015, Tampere, Finland	Ionel L., Zamfirescu M.
125.	Numerical analysis of spatial distortions effect on femtosecond laser interference patterning-Poster	ICTP-Winter College in Optics, 9-20 February, 2015, Trieste, Italy	Ionel L.
126.	Simulations for Protons and Electrons Acceleration with The 1 Pw Laser Pulse From Cetal Facility/Poster	ISUIL, Moscow, Russia, October 4-9	O. Budriga, E. d'Humieres, C. M. Ticos
127.	Design of periodic structures in a multiple beam interference scheme based on a 2D spatial light modulator-Poster	ROMOPTO 2015, Bucharest, Romania, September 1-4	Ionel L., Zamfirescu M.
128.	Femtosecond laser single shot micro/nanoprocessing of substrates by near-field enhancement using silica particles	ICTP-Winter College in Optics, 9-20 February, 2015, Trieste, Italy	Iulia Anghel, Mihaela Filipescu, Marian Zamfirescu, Monica Enculescu, Magdalena Ulmeanu
129.	New laser ablation method to produce photonic crystals on metal oxides materials	8th International Summer School "New Frontiers in Optical Technologies", 10-14 August, 2015, Tampere, Finland	Iulia Anghel, Marian Zamfirescu



130.	Photonic crystal structures produced by optical near-field intensification using silica particles on TiO ₂ and ZnO	ROMOPTO 2015, Bucharest, Romania, September 1-4	Iulia Anghel, Marian Zamfirescu
131.	Micro / nano femtosecond laser engineered platforms for MSC's stem cells studies in vitro / prezentare orală	ROMOPTO 2015, Bucharest, Romania, September 1-4	L. Rusen, L.E. Sima, I. Anghel, A. Bonciu, M. Zamfirescu, V. Dinca
132.	Study of functional and photoresponsive surfaces based on pNIPAAm and its derivatives / poster	ROMOPTO 2015, Bucharest, Romania, September 1-4	L. Rusen, N. Mihailescu, M. Filipescu, A. Bonciu, V. Dinca, M. Dinescu
133.	Poly(N-isopropylacrylamide) based coatings for in vitro evaluation / poster	EMRS 2015, Lille, France, 11-15 May	L. Rusen, C. Mustaciosu, M. Filipescu, V. Dinca, C. Luculescu, M. Bacalum, M. Dinescu
134.	"Ar ion irradiation effects induced in ZrC _x N _y thin films", poster CC 47,	E-MRS Spring Meeting 2015, Lille, France, Simpozion CC "Laser and plasma processing for advanced applications in material science, 11 mai 2015	G. Dorcioman, G. Socol, D. Craciun, N. Stefan, D. Simeone, D. Cristea, D. Munteanu, V. Craciun
135.	"The effects induced by Ar ion irradiation in ZrC _x N _y thin films", poster V 14	E-MRS Fall Meeting 2015, Varsovia, Polonia, Simpozion V "Stress, structure, and stoichiometry effects on the properties of nanomaterials", 15-18 septembrie 2015	G. Dorcioman, G. Socol, D. Craciun, N. Stefan, S. Behdad, B. Boesl, D. Simeone, V. Craciun
136.	"Mechanical and electrochemical properties of titanium implants coated with hard coatings by PLD", poster	THE 8th INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS: ROCAM 2015, 7-10 Iulie, Bucharest, Romania, S4 Advanced Biomaterials, Biodevices and Biotechnology	G. Socol, D. Craciun, V. Craciun, G. Dorcioman, D. Cristea, M. Stoicanescu, L. Floroioan, M. Badea, D. Pantelica, P. Ionescu, Conferinta
137.	"Influence of stress on corrosion behavior of transition metal carbide and nitride coatings", poster	EMRS- fall meeting 15-18 sept 2015 Warsaw Poland- Symposium V-	D. Craciun, G. Socol, V. Craciun, G. Dorcioman, D. Cristea, M. Stoicanescu, L. Floroioan, M. Badea, D. Pantelica, P. Ionescu,
138.	"Pulsed laser deposition of transition metals carbide and nitride coatings for biological implants", orală	EMRS- Fall meeting 15-18 sept 2015 Warsaw Poland- Symposium F	G. Socol, D. Craciun, G. Dorcioman, N. Stefan, V. Grumezescu, V. Craciun, D. Cristea, L.



			Floroioan, M. Badea, D. Pantelica, P. Ionescu
139.	Gamma irradiation effects of the properties of amorphous indium zinc oxide thin films, poster L10	E-MRS Fall Meeting 2015, Varsovia, Polonia, Simpozion L "Towards Oxide-Based Electronics: growth and applications of oxide thin films and heterost – 16 septembrie 2015-	G. Socol, S. Le Caër, D. Craciun, F. Oana, A. C. Galca, C. Martin, V. Craciun
140.	LaB6 films grown by pulsed laser deposition for electrical sliding contacts, orală, EE.3	E-MRS Spring Meeting 2015, Lille, France, Simpozion EE "Protective coatings and thin films", 14 mai 2015	D. Craciun, D. Cristea, M. Stoicanescu, E. Lambers, G. Socol, V. Craciun
141.	Radiation induced effects on pulsed laser deposited thin films, orală, CCCC.8.1	E-MRS Spring Meeting 2015, Lille, France, Simpozion CC "Laser and plasma processing for advanced applications in material science, 13 mai 2015	G. Socol, D. Craciun, D. Simeone, S. Behdad, B. Boesl, E. Lambers, C. Himcinschi, D. Pantelica, P. Ionescu, C. Martin, B. Vasile, H. Makino, V. Craciun
142.	Pulsed Laser Deposition of Biocompatible Coatings for Titanium Implants, poster V.P.3.	ROMOPTO 2015, 11th International Conference on Optics "Micro- to Nano-Photonics IV", Section V. Biophotonics and Optics in Environment Research	G. Socol, D. Craciun, G. Dorcioman, V. Craciun, D. Cristea, L. Floroioan, M. Badea, D. Pantelica, P. Ionescu
143.	Composite biodegradable biopolymer coatings of Silk Fibroin – Poly(3-Hydroxybutyric-acid-co-3-Hydroxyvaleric-acid) for biomedical applications, poster I.P.16.	ROMOPTO 2015, 11th International Conference on Optics "Micro- to Nano-Photonics IV", Section V. Biophotonics and Optics in Environment Research	Floralice Marimona Miroiu, Nicolaie Stefan, Anita Ioana Visan, Cristina Nita, Catalin Romeo Luculescu, Oana Rasoga, Marcela Socol, Irina Zgura, Rodica Cristescu, Doina Craciun, Gabriel Socol
144.	Mechanical properties of LaB6 thin films grown by pulsed laser deposition, poster	9th INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE & ENGINEERING BRAMAT 5 – 7 March 2015, Brasov, Romania.	D. Craciun, D. Cristea, M. Stoicanescu, D. Munteanu, E. Lambers, G. Socol, V. Craciun,
145.	Investigations of Ar irradiation effects in pulsed laser deposited ZrC, ZrN and SiC thin films, poster	E-MRS May 11-15, 2015 Lille-France	D. Craciun, G. Socol, N. Stefan, D. Simeone, S. Behdad, B. Boesl, E. Lambers,



			C. Himcinschi, D. Pantelica, P. Ionescu, C. Martin, B. Vasile, H. Makino, V. Craciun
146.	Light-assisted synthesis of ordered carbon materials	CARBON 2015 July 12, 2015 – July 17, 2015, Dresden, Germania	CM Ghimbeu, M Sopronyi, F Sima, C Vaultot, L Vidal, JM Le Meins, L. Delmotte
147.	Bioresponsive material surfaces fabricated by innovative laser approaches	25th SRBBM Aniversary Conference, 17-18 September 2015, Romanian Academy, Bucuresti, Romania	F. Sima, I.N. Mihailescu
148.	Antimicrobial evaluation of embedded lysozyme into degradable PEG/PCL coatings ,poster presentation number 51/ 23June 2015(15:30 –16:30)	Smart Engineering of New Materials 2015, 23.06 - 25.06.2015, Lodz, Poland	A. Visan, N. Stefan, M. Miroiu, C. Nita, G. Dorcioman, O. Rasoga, I. Zgura, C. Breazu, A. Stanculescu, R. Cristescu, M.C. Chifiriuc, M. Chiritoiu, L. Sima, F. Antohe, L. Ivan, G. Socol, I.N. Mihailescu
149.	Antimicrobial biopolymeric composites containing flavonoids and silver nanoparticles poster presentation: P-Tu-059/1 September 2015	European Conference on Surface Science, www.ecoss2015.org , 31 August-4 September 2015 Barcelona, Spain	Rodica Cristescu, Anita Visan, Gabriel Socol, Alexandru Mihai Grumezescu, Mariana Carmen Chifiriuc, Dan Mihaiescu, Ryan D. Boehm, Dina Yamaleyeva, Michael Taylor, Roger J. Narayan, Douglas B. Chrisey
150.	MAPLE fabrication of antimicrobial coatings for medical applications Oral presentation 16:30-16:45,Section4 , 9 July	The 8th International Conference On Advanced Materials: Rocam 2015, 7-10 July 2015, Bucharest, Romania	A. Visan, M. Miroiu, C. Nita, M. Socol, I. Zgura, R. Cristescu, M.C. Chifiriuc, L. Sima, F. Antohe, I.N. Mihailescu, G. Socol
151.	Comparative Study On The Deposition Of Degradable Polymeric Coatings Based On Lysozyme Embedded Into	The 8th International Conference On Advanced Materials: Rocam 2015, 7-10 July 2015, Bucharest, Romania	G. Popescu-Pelin, E. Axente, F. Sima, C. Nita, A. Visan, I. Zgura, O.L. Rasoaga,



	PCL/PLGA Blends, poster presentation: number 1040; 18:30-20:00, Section 3		C.S. Breazu, A. Stanculescu, M. Chiritoiu, L. Sima, S. Antohe, L. Ivan, G. Socol, I.N. Mihailescu
152.	Composite Biodegradable Biopolymer Coatings Of Silk Fibroin - Poly(3-Hydroxy-Butyric Acid-Co-3-Hydroxy-Valeric Acid) For Biomedical Applications, poster presentation number: II P16	11 th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", September 1 - 4, 2015, Bucharest, Romania	F.M. Miroiu, N. Stefan, A. Visan, C. Nita, I. Zgura, O. L. Rasoga, M. Socol, CR Luculescu, R. Cristescu, D. Craciun, G. Socol
153.	Morphological And Structural Characterisation Of Carbon Thin Films Synthesized By Matrix Assisted Pulsed Laser Evaporation For Medical Applications, poster presentation number: II P8	11 th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", September 1 - 4, 2015, Bucharest, Romania	L. Duta, C. Ristoscu, E. Axente, I. Urzica, G. Stan, A. Visan, I. N. Mihailescu
154.	Chitosan- Biomimetic nanocrystalline apatite composite coatings synthesized by advanced laser technologies with applications in medicine, poster presentation number: II P9	11 th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", September 1 - 4, 2015, Bucharest, Romania	A. Visan, C. Ristoscu, G. Popescu-Pelin, M. Sopronyi, I. Urzica, C. Luculescu, D. Grossin, F. Brouillet, I. N. Mihailescu1
155.	MAPLE deposition of silk fibroin - poly(sebacic acid) diacetoxyl terminated composite coatings for biodegradable medical applications, poster presentation number II P 17	11 th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", September 1 - 4, 2015, Bucharest, Romania	N. Stefan, F. M. Miroiu, A. I. Visan, C. Nita, C.R. Luculescu, O. L. Rasoga, G. Socol
156.	Nanostructured Composite Polymeric – Bioglass Thin Films For Anticorrosion And Bioactive Applications In Regenerative Medicine : Invited Lecture: II I1/1 September	11 th International Conference "Micro- to Nano-Photonics IV-ROMOPTO 2015", September 1 - 4, 2015, Bucharest, Romania	Ion N. Mihailescu, Carmen Ristoscu, Irina Negut, Natalia Mihailescu, Anita Visan, George Stan, Carmen Chifiriuc
157.	Structural and biological characterization of lignin incorporation to simple and silver-doped hydroxyapatite coatings synthesized by matrix-assisted	E-MRS 2015 SPRING MEETING, May 15-18, Lille, France	G. Socol, A. Jankovic, N. Serban, L. Duta, S. Erakovic, C. Ristoscu, G.E. Stan, A. Visan, C.



	pulsed laser evaporation Poster presentation CC PI 33, 16:00, 11 May 2015		Luculescu, M.C. Chifiriuc, V. Miskovic- Stankovic, I.N. Mihailescu
158.	Ag:hydroxyapatite coatings with antifungal activity synthesized by pulsed laser deposition on Ti and Ti modified by TiO ₂ nanotubes substrates Poster presentation CC PI 35, 16:00, 11 May 2015	E-MRS 2015 SPRING MEETING, May 15-18, Lille, France	G.Socol, A.Visan, S. Erakovic, A. Jankovic, C. Ristoscu, N. Mihailescu (Serban) ,L. Duta, G.E. Stan, M. Socol, O. Iordache, I. Dumitrescu, C.R. Luculescu, I.N. Mihailescu.Dj. Janackovic, V. Miskovic-Stankovic
159.	In Vitro Evaluation Of Embedded Lysozyme Into Degradable PEG/PCL Coatings, Poster presentation CC PI 36, 16:00, 11 May 2015	E-MRS 2015 SPRING MEETING, May 15-18, Lille, France	A. Visan, G. Socol,M. Miroiu, N. Stefan, C. Nita, G. Dorcioman, I.Zgura, O.L. Rasoga, C. Breazu, I. Urzica, L. Sima,L. Ivan, C. Cotrut,R . Cristescu, C. R. Luculescu , A. Stanculescu, I.N. Mihailescu
160.	Deposition of degradable polymeric coatings based on lysozyme embedded into poly(ϵ - caprolactone)/poly(lactic acid-co- glycolic acid) blends Poster presentation CC PI 52, 16:00, 11 May 2015	E-MRS 2015 SPRING MEETING, May 15-18, Lille, France	G. Popescu-Pelin, E. Axente, F. Sima, I. Iordache, C. Nita, A. Visan, I. Zgura, O.L. Rasoaga, C.S. Breazu, A. Stanculescu, M. Chiritoiu, L. Sima, F. Antohe, L. Ivan, I.N. Mihailescu, G. Socol
161.	<u>Antifungal Activity Of Maple- Deposited Bioactive Surfaces Incorporating Different Combinations Of Systemic Antifungals And Flavonoids</u> Oral Lecture 14:45, Cc.33	E-MRS 2015 SPRING MEETING, May 15-18, Lille, France	R. Cristescu, A. Visan, G. Dorcioman, G. Socol, I.N. Mihailescu, A.M. Grumezescu, M.C. Chifiriuc, R.D. Boehm, R.J. Narayan, and D.B. Chrisey
162.	<u>Characterization and deposition of lysozyme embedded into degradable coatings based on</u>	E-MRS 2015 SPRING MEETING, May 15-18, Lille, France	C.Nita, A. Visan, E. Axente, O. Rasoga, R. Cristescu, N. Stefan , M.Miroiu, G.



	<u>PLA/PCL blends</u> Poster presentation CC PI 34, 16:00, 11 May 2015		Dorcioman, I. Zgura, C.S. Breazu, M. Chiritoiu, L. Sima, G. Socol
163.	MAPLE deposition of silk fibroin - poly(sebacic acid) diacetoxy terminated composite coatings for biodegradable medical applications, Poster II P17	ROMOPTO 2015, 11th International Conference on Optics "Micro- to Nano-Photonics IV", Section V. Biophotonics and Optics in Environment Research	N. Stefan, F. M. Miroiu, A. I. Visan, C. Nita, C.R. Luculescu, O. L. Rasoga, G. Socol,
164.	Antibacterial Activity of MAPLE-deposited Functionalized Flavonoid-Biopolymer Composite Thin Films, Invitata	EMN Istanbul Meeting 2015, July 1-4, 2015, Istanbul, Turkey	R. Cristescu
165.	Pulsed Laser Fabrication of Ag, Si:C thin films for antimicrobial coatings of implants, poster	NANOTEXNOLOGY 2015, 7-10 iulie, Salonic, Grecia	N. Mihailescu, G. Socol, C. Hapenciuc, G. E. Stan, I. Negut, C. Ristoscu, I. N. Mihailescu, C. Chifiriuc
166.	Matrix-assisted pulsed laser evaporation of lignin addition to simple and silver-doped hydroxyapatite thin films: structural and biological evaluation poster	International Conference - New Trendson Sensing-Monitoring-Telediagnosis for Life Sciences – 2015, Brasov, Romania, July 24-26, 2014	N. Mihailescu, C. Ristoscu, A. Janković, S. Eraković, I.N. Mihailescu, G. E. Stan, A. Visan, M. C. Chifiriuc, V. Mišković-Stanković
167.	Multi-stage pulsed laser deposition of Aluminum Nitride at different temperatures / poster (CC.PI 46) la Simpozionul CC	EMRS Spring Meeting, Lille, Franta, 11-15 Mai 2015	L. Duta, V. Grumezescu, G.E. Stan, M. Anastasescu, H. Stroescu, M. Gartner, Zs. Fogarassy, N. Mihailescu, C. Luculescu, S. Bakalova, A. Szekeres, I.N. Mihailescu
168.	In-vitro biological assessment of ultra-high molecular weight polyethylene acetabular cups functionalized with bioactive glass coatings by pulsed laser deposition / poster (CC.PI 51) la Simpozionul CC	EMRS Spring Meeting, Lille, Franta, 11-15 Mai 2015	L. Duta, G.E. Stan, A.C. Popescu, A.C. Popa, F. Miculescu, I.N. Mihailescu
169.	Highly adherent biological hydroxyapatite thin films grown by Pulsed Laser Deposition for a new	EMRS Spring Meeting, Lille, Franta, 11-15 Mai 2015	L. Duta, G.E. Stan, N. Serban, F.N. Oktar, I. N. Mihailescu



	generation of implants / poster (CC.PI 54) la Simpozionul CC		
170.	Morphological and structural characterization of Carbon thin films synthesized by Matrix Assisted Pulsed Laser Evaporation for medical applications / orală	Conferinta „Smart Engineering of New Materials (SENM)”, Lodz, Polonia, 23-25 Iunie 2015	Duta L., Ristoscu C., Axente E., Visan A., Mihailescu I.N.
171.	Structural and mechanical properties of DLC coatings synthesized by pulsed laser deposition / poster (F.31) la Simpozionul F	EMRS Fall Meeting, Warsaw University of Technology, Poland, 15-18 Septembrie, 2015	Liviu Duta, A.C. Popescu, C. Popescu, B. Bită, A. Husanu, C. Himcinschi, G.E. Stan, V. Craciun, Penka Terziyska, A.Szekeres
172.	Multi-stage pulsed laser deposition of Aluminium Nitride films: Effect of deposition temperature / orală	“7-th International Workshop Advanced optical and X-ray characterization techniques of multifunctional materials for information and communication technologies, sensing and renewable energy applications”, Institute of Physical Chemistry "Ilie Murgulescu", Bucuresti, Romania, 16-18 Septembrie, 2015	L. Duta, G.E. Stan, M. Anastasescu, H. Stroescu, M. Gartner, Zs. Fogarassy, N. Mihailescu, A. Szekeres, S. Bakalova, I.N. Mihailescu
173.	Structural, optical and vibrational properties of nanostructured aluminum nitride films synthesized by multi-stage pulsed laser deposition / poster (PC-16)	“Nineteenth International Summer School on Vacuum, Electron and Ion Technologies (VEIT)”, Sozopol, Bulgaria, 21-25 Septembrie, 2015	L. Duta, G.E. Stan, M. Anastasescu, H. Stroescu, M. Gartner, Zs. Fogarassy, N. Mihailescu, C. Luculescu, S. Bakalova, A. Szekeres, I.N. Mihailescu
174.	Orientation of the Nanocrystallites in AlN Thin Film Determined by FTIR Spectroscopy / poster P3-1	Light in Nanoscience and Nanotechnology (LNN 2015), Hissar, Bulgaria, 20-22 October 2015	K. Antonova, Anna Szekeres, L. Duta, G.E. Stan, N. Mihailescu, I.N. Mihailescu
175.	Structural analysis of PM hydroxyapatite-based biocomposites elaborated by microwave sintering Poster presentation (II.P.17.)	9th International Conference on Materials Science and Engineering – BRAMAT 2015, Braşov – ROMANIA, 5 – 7 March 2015	Ionela-Gabriela Bucse, Carmen Ristoscu, Gabriela Sima, Bebe-Adrian Olei, Oana Gingu
176.	The influence of the foaming agents on the porosity of the PM hydroxyapatite-based biocomposites sintered by microwave heating Poster presentation (II.P.93.)	9th International Conference on Materials Science and Engineering – BRAMAT 2015, Braşov – ROMANIA, 5 – 7 March 2015	Cristina Teisanu, Carmen Ristoscu, Gabriela Sima, Ionela Gabriela Bucse, Bebe-Adrian Olei, Oana Gingu



177.	Smart technology for soft pulsed laser transfer of organic and biological compound Invited lecture	"Smart Engineering of New Materials" SENM 2015, June 22-25, 2015, Lodz, Poland	I. N. Mihailescu, C. Ristoscu, G. Socol, G.E. Stan, L. Duta, I. Negut, A. Visan
178.	Antimicrobial coatings of carbon doped with silver synthesized by Combinatorial Pulsed Laser Deposition for medical applications Poster (I/44)	"Smart Engineering of New Materials" SENM 2015, June 22-25, 2015, Lodz, Poland	I. Negut, G. Socol, C. Hapenciuc, G.E. Stan, C. Chifiriuc, V. Lazar, C. Ristoscu, I.N. Mihailescu
179.	Combinatorial Si:C structures obtained by Combinatorial Pulsed Laser Deposition: mechanical and biological characterisation Poster (I/45)	"Smart Engineering of New Materials" SENM 2015, June 22-25, 2015, Lodz, Poland	I. Negut, G. Socol, C. Hapenciuc, G.E. Stan, M.A. Husanu, C. Ristoscu, I.N. Mihailescu
180.	Soft pulsed laser technologies for transfer of organic materials Invited lecture (I-08)	13th International Conference on Laser Ablation (COLA 2015), August 31 – September 4, 2015, Cairns, Australia	I. N. Mihailescu, C. Ristoscu, F. Sima
181.	Combinatorial Matrix - Assisted Pulsed Laser Evaporation for fabrication of maps of biomaterials Oral presentation (O-45)	13th International Conference on Laser Ablation (COLA 2015), August 31 – September 4, 2015, Cairns, Australia	C. Ristoscu, F. Sima, E. Axente, L. E. Sima, N. Mihailescu, E. Toksoy Oner, A. Bigi, I. N. Mihailescu
182.	New results with pulsed laser technologies for transfer of organic and biological substances: applications in biomedicine Invited lecture (LM-I-20)	Conference on Advanced Laser Technologies ALT 2015, September 7 – 11, 2015, Faro, Portugal	Ion N. Mihailescu and Carmen Ristoscu
183.	Combinatorial Matrix - Assisted Pulsed Laser Evaporation of organic materials for biomedical applications Oral presentation (B-O-8)	Conference on Advanced Laser Technologies ALT 2015, September 7 – 11, 2015, Faro, Portugal	C. Ristoscu, F. Sima, E. Axente, L. E. Sima, N. Mihailescu, I. Negut, A. Visan, E. Toksoy Oner, A. Bigi, I. N. Mihailescu
184.	Soft laser light as tweezers for protected transfer of organic/biological objects Invited lecture	FIAT LUX Conference, Rome 3-5 June 2015	I. N. Mihailescu, C. Ristoscu
185.	Antimicrobial coatings of C doped with Ag and Si Poster presentation (CC.PI 53)	E-MRS 2015, May 11-15, 2015, Lille, France	I. Negut, C. Ristoscu, G. Socol, G. Stan, C. Chifiriuc, C. Hapenciuc, I. N. Mihailescu
186.	Soft nano-pulsed laser methods for protected transfer of delicate	"Light in Nanoscience and Nanotechnology" Conference,	Ion N. Mihailescu and Carmen Ristoscu



	biomaterials to substrates of interest for biomedical applications Invited Lecture	October 19 – 22, 2015, Hissar, Bulgaria	
187.	Combinatorial pulsed laser evaporation techniques for drug delivery and biomimetic implants applications Invited lecture	“Light in Nanoscience and Nanotechnology” conference, October 19 – 22, 2015, Hissar, Bulgaria	C. Ristoscu
188.	Nanostructured composite polymeric – bioglass thin films for anticorrosion and bioactive applications in regenerative medicine Invited lecture (II.I.1.)	ROMOPTO 2015, 11th International Conference on Optics “Micro- to Nano-Photonics IV”, September 1-4, 2015 Bucharest, Romania	Ion N. Mihailescu, Carmen Ristoscu, Irina Negut, Natalia Mihailescu, George Stan, Carmen Chifiriuc
189.	Combinatorial Ag:C structures synthesized by Pulsed Laser Deposition for biomedical applications Poster presentation (II.P.3.)	ROMOPTO 2015, 11th International Conference on Optics “Micro- to Nano-Photonics IV”, September 1-4, 2015 Bucharest, Romania	I. Negut, C. Ristoscu, G. Socol, G. Stan, C. Chifiriuc, C. Hapenciuc, I. N. Mihailescu
190.	Feedstock set-up of the biocomposite material for alloplastic bone grafts manufacturing Poster presentation (PS3.65)	Central and Eastern European Committee for Thermal Analysis and Calorimetry, CEEC-TAC3, 25-28 August 2015, Ljubljana, Slovenia	Cristina TEISANU, Carmen RISTOSCU, Ionela BUCSE, Petre ROTARU
191.	Thermal and spectral behaviour of some biocompatible powder particles for bone reconstruction Oral presentation (OP.12)	Central and Eastern European Committee for Thermal Analysis and Calorimetry, CEEC-TAC3, 25-28 August 2015, Ljubljana, Slovenia	Oana GINGU, Gabriela SIMA, Carmen RISTOSCU, Dan COJOCARU, Petre ROTARU
192.	Fabrication of Y ₂ O ₃ and Y _{1.94} Yb _{0.05} Er _{0.01} O ₃ thin films by pulsed laser deposition Poster presentation (ID 439)	4th International Conference on the Physics of Optical Materials and Devices, 31st August-4th September 2015, Budva, Montenegro	D. Veljović, N. Mihailescu, A. Stefan, G. E. Stan, C. Luculescu, D. Janačkovic, V. Đorđević, M. D. Dramićanin, R. Krsmanović Whiffen, C. Ristoscu, S. Georgescu, I. N. Mihailescu
193.	Soft laser transfer of organic and inorganic materials for biomedical applications Invited lecture	PROGRESSIVE BIOMEDICAL MATERIALS AND TECHNOLOGIES 2015, October 9th-10th, 2015, CTU Faculty of Biomedical Engineering, Kladno, Czech Republic	Ion N. Mihailescu, Carmen Ristoscu, Gabriela Dorcioman



194.	Laser interaction with organic materials: a new prospective technique for advanced nanotechnologies Invited lecture (INV – 5)	“LASER and PLASMA MATTER INTERACTION” Workshop, Plovdiv, Bulgaria, November 18 – 20, 2015	I. N. Mihailescu, C. Ristoscu
195.	Combinatorial Ag:C structures synthesized by Pulsed Laser Deposition for biomedical applications Poster (P9)	“LASER and PLASMA MATTER INTERACTION” Workshop, Plovdiv, Bulgaria, November 18 – 20, 2015	I. Negut, C. Ristoscu, G. Socol, G. Stan, C. Chifiriuc, C. Hapenciuc, I. N. Mihailescu
196.	Medical surfaces coated with silica nanoparticles to inhibit bacterial attachment and biofilm formation. Poster - P0062	European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), 25 – 28 April 2015, Copenhagen, Denmark.	V. Grumezescu, G. Socol, A.M. Grumezescu, A.M. Holban, B.S. Vasile, R. Cristescu, A. Fica, F. Iordache.
197.	Nanostructured surfaces based on hydroxyapatite/polyethylene glycol/doxorubicin composites fabricated by MAPLE with potential applications in bone implantology. Poster - CC.PI 38	E-MRS 2015 SPRING MEETING, Symposium CC: Laser and plasma processing for advanced applications in material science, May 11-35, 2015, Lille, France.	V. Grumezescu, E. Andronescu, D. Vezeteu, B. Drosu, A.V. Surdu, O.R. Vasile, B.S. Vasile, A.M. Grumezescu, G. Socol, F. Iordache, H. Maniu.
198.	MAPLE deposition of conducting polymers. Poster - CC.PI 24	E-MRS 2015 SPRING MEETING, Symposium CC: Laser and plasma processing for advanced applications in material science, May 11-35, 2015, Lille, France.	G. Socol, N. Stefan, V. Grumezescu, G. Popescu-Pelin, V. Craciun, D. Craciun, M. Socol, C.R. Luculescu, A.C. Galca.
199.	Hydroxyapatite/polyethyleneglycol/doxorubicin coatings for the prevention of bone cancer relapse at the bone-implant interface. Poster - P15-031	(FEBS) July 4 - 9 2015, Berlin, Germany.	V. Grumezescu, D. Radulescu, A.M. Holban, O.R. Vasile, A.M. Grumezescu, G. Socol, A.E. Oprea, R. Radulescu, F. Iordache, H. Maniu.
200.	Crystalline SnO ₂ nanoparticles confined in mesoporous carbon as highly performing anode for Na ion batteries	6th International Conference on Carbon for Energy Storage/Conversion and Environment Protection CESEP' 2015 Poznan, Polonia, 18-22 Octombrie 2015	Ali Jahel, Ali Darwiche, Cristina Pana, Camélia Matei Ghimbeu, Cathie Vix-Guterl, Laure Monconduit
201.	Morphological studies of laser processed titanium oxide – graphene oxide nanocomposite layers	E-MRS Spring Meeting 11-15 May 2015, Lille, France	A. Perez del Pino, A. Datcu, E. György



202.	Solar-active photocatalytic tandems. A compromise in the photocatalytic processes design	E-MRS Spring Meeting 11-15 May 2015, Lille, France	A. Duta, A. Enesca, C. Bogatu, E. György
203.	Photoactive nanocomposite materials grown by matrix assisted pulsed laser evaporation	E-MRS Spring Meeting 11-15 May 2015, Lille, France	A. Datcu, L. Duta, A. Perez del Pino, C. Luculescu, C. Logofatu, C. Bogatu, A. Duta, E. György
204.	Laser processing and immobilisation of TiO ₂ / graphene oxide (GO) / noble metal nanocomposite materials Orala O1	11 th International Conference "Micro- to Nano-Photonics IV- ROMOPTO 2015" September 1 - 4, 2015 Bucharest, Romania	A. Datcu, L. Duta, A. Pérez del Pino, C. Logofatu, A. Duta, E. György
205.	<u>Hard protective Co-doped DLC films synthesized by PLD for cutting and drilling tools</u> // poster presentation (EE-PI 32	EMRS 2015, Spring Meeting, Symposium EE, Protective coatings and Thin Films, May 11-15, 2015, Lille, France	C. Popescu, L. Duta, G. Socol, G. E. Stan, M. Husanu, S. Iordache, I. Stamatin, C. Himcinschi, V. Craciun, A. C. Popescu
206.	"In-situ high temperature study of AOS optical and structural properties", poster L.11	E-MRS Fall Meeting 2015, Varsovia, Polonia, Simpozion L "Towards Oxide-Based Electronics: growth and applications of oxide thin films and heterost – 16 septembrie 2015	A. C. Galca, G Socol, L. M. Trinca, V. Craciun
207.	Investigations of radiation induced defects in pulsed laser deposited thin films", prezentare invitata, II.I.3.	ROMOPTO 2015, 11th International Conference on Optics "Micro- to Nano-Photonics IV", Section II. Lasers in Materials Science, 1 septembrie 2015	D. Simeone, G. Socol, D. Craciun, S. Behdad, B. Boesl, E. Lambers, C. Himcinschi, D. Pantelica, P. Ionescu, C. Martin, B. Vasile, H. Makino, V. Craciun
208.	Protective and hard carbide and nitride transitional metal films grown by pulsed laser deposition technique, poster	THE 8th INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS, ROCAM 2015, Bucharest, Romania, 7-10 Iulie 2015	M. Stoicanescu, D. Cristea, G. Socol, D. Craciun, V. Craciun, A. Crisan
209.	On the Electrical and Optical Properties of Amorphous Oxide Semiconductors, Poster	THE 8th INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS, ROCAM 2015, Bucharest, Romania, 7-10 Iulie 2015	R. Radu, A. C. Galca, L. M. Trinca, C. Besleaga, I. Pintilie, G Socol, and V. Craciun
210.	Investigations of the radiation induced effects in pulsed laser deposited thin films, orala	THE 8th INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS, ROCAM 2015, Bucharest, Romania, 7-10 Iulie 2015	D. Simeone, G. Socol, D. Craciun, S. Behdad, B. Boesl, E. Lambers, C.



			Himcinschi, D. Pantelica, P. Ionescu, C. Martin, B. Vasile, H. Makino, and Valentin Craciun
211.	Ar ion irradiation induced effects on the structure and properties of ZrC, ZrN and SiC thin films grown by pulsed laser deposition,	MRS Spring Meeting, April 6-10, 2015, San Francisco-California, USA.	Valentin Craciun, David Simeone, Gabriel Socol, Doina Craciun, Sadegh Behdad, Ben Boesl, Eric Lambers, Cameliu Himcinschi, Bogdan Vasile, Catalin Martin, Hisao Makino
212.	TCO thin films prepared by radio frequency magnetron sputtering and vacuum thermal evaporated techniques, poster symposium M	EMRS Spring, 11-15 may 2015, Lille, France.	P. Prepelita, V. Craciun, C. Viespe, M. Filipescu, T. Tozar, D. Cristea
213.	Structural properties of CIGS thin films deposited by magnetron sputtering technique, poster S1, 965	THE 8th INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS, ROCAM 2015, Bucharest, Romania, 7-10 iulie 2015	P. Prepelita, V. Craciun, M. Filipescu, I. Stavarache, D. Craciun, F. Garoi, G. Sbarcea, A. Vlad
214.	Optical characterization of some transparent oxides thin films, poster S8, 966	THE 8th INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS, ROCAM 2015, Bucharest, Romania, 7-10 iulie 2015	P. Prepelita, V. Craciun, M. Filipescu, D. Craciun, F. Garoi, G. Sbarcea, I. Stavarache, A. Vlad, C. Viespe
215.	Structural characterizations of CIGS thin films, poster II P.10	ROMOPTO 2015, 11th International Conference on Optics "Micro- to Nano-Photonics IV", Section II. Lasers in Materials Science, 1 septembrie 2015,	P. Prepelita, V. Craciun, F. Garoi, M. Filipescu
216.	Influence of the RTA on the physical properties of ITO thin films, poster II P.11	ROMOPTO 2015, 11th International Conference on Optics "Micro- to Nano-Photonics IV", Section II. Lasers in Materials Science, 1 septembrie 2015,	P. Prepelita, V. Craciun, F. Garoi, D. Craciun
217.	Hydroxyapatite nanopowders obtained by sol-gel method. synthesis and properties, poster	The 8th International Conference on Advanced Materials, ROCAM 2015, 7-10 July 2015, Bucharest, Romania	B. A. Sava, C. Tardei, C.A. Simonescu, A. Cucos, L. Boroica



218.	Thin films obtained by magnetron sputtering from borophosphate glasses doped with Dy and Tb, poster	ROMOPTO 2015, 1-4 sept. 2015, Bucharest, Romania	Boroica L., Sava B. A., Medianu V.R., Elisa M., Filipescu M., Monteiro R., Iordanescu R., Feraru I., Shikimaka O., Grabco D
219.	Obtaining and characterization of doped boro-phosphate nanomaterials for photonics, poster	ROMOPTO 2015, 1-4 sept. 2015, Bucharest, Romania	Sava B. A., Boroica L., Elisa M., O. Shikimaka, D. Grabco, G. Socol, Regina C C Monteiro, V. Kuncser, R. Iordanescu, I. Feraru, R. Medianu
220.	Sol- gel obtaining of powders and thin films from doped borophosphate systems, poster	Conferinta Internationala "Sol-Gel 2015", Kyoto, Japonia, 6.09.2015-11.09.2015	B.A. Sava, L. Boroica, M. Elisa, R.C.C. Monteiro, O. Shikimaka, D. Grabco, R. Iordanescu, I. Feraru,
221.	PLD Thin Films Obtained From Dy ₂ O ₃ And Tb ₂ O ₃ Co-doped Boro-Phosphate Glasses, poster	Conferinta Internationala "International Comission on Glass \ 2015", 20.09.-23.09.2015, Abstract Book, p. 208	Sava B. A., Boroica L., Elisa M., Socol G., Stefan N. , Andrei A., Filipescu M., Monteiro R., Iordanescu R., Feraru I., Shikimaka O., Grabco D
222.	Bismuth and lead oxide co-doped borophosphate thin films obtained by RF magnetron sputtering, for magneto-optical applications, poster	23rd International Conference on Materials and Technology, 27-30.09.2015, Bernardin, Portoroz, Slovenija	B. A. Sava, M. Elisa, L. Boroica, R. Medianu, R. C. C. Monteiro, V. Kuncser, M. Valeanu, R. Iordanescu, I. D. Feraru
223.	Effect of spin coating technique on mechanical properties of silicophosphate thin films doped by neodymium, postre	3rd International Conference on Nanotechnologies and Biomedical Engineerings, Chisinau, 23-25 sept. 2015, Moldova, Abstract Book, p. 71	D. Grabco, O. Shikimaka, M. Elisa, B. Sava, L. Boroica, E. Harea, C. Pyrtsac, A. Prisacaru, I. Feraru, R. Iordanescu, Z. Barbos
224.	Analysis of thickness influence on refractive index and absorption coefficient of ZnSe thin films, orală III O.4	ROMOPTO 2015, 1-4 sept. 2015, Bucharest, Romania	G. Georgescu, A. Petris
225.	„Small band-gap thin film of doped and un-doped BiFeO ₃ obtained by pulsed laser deposition for photovoltaic and photocatalytic applications"/ Poster	E-MRS 2015, Lille, Franta, 11-15 mai 2015	V. Ion , N.D. Scarisoneanu A. Andrei , R. Birjega , A.I. Bercea , M. Dinescu



226.	Growth of epitaxial $\text{Sr}_{1-x}\text{Ba}_x\text{Nb}_2\text{O}_6$ and Ca- doped $\text{Sr}_{1-x}\text{Ba}_x\text{Nb}_2\text{O}_6$ thin films by PLD for optical and electro-optical devices/ Poster	E-MRS 2015, Lille, Franta, 11-15 mai 2015	G. Stanciu, A. Bercea, N. D. Scarisoreanu, R. Birjega, V. Ion, A. Moldovan, M. Dinescu
227.	High atomic diffusivity during pulsed laser irradiation of TiON quasi-amorphous films / Poster	E-MRS 2015, Lille, Franta, 11-15 mai 2015	V.S. Teodorescu, A.V. Maraloiu, R. Negrea, D. Ghica, N.I. Scarisoreanu, M. Dinescu, M. Gartner, M. Zaharescu, M.G. Blanchin
228.	Optical and electrical properties of $(\text{Ba}_{1-x}\text{Ca}_x)(\text{Zr}_{1-y}\text{Ti}_y)\text{O}_3$ epitaxial thin films growth by pulsed laser deposition / prezentare orala	ROCAM 2015, Bucuresti, Romania, 7-10 Iulie 2015	A.I. Bercea; N.D. Scarisoreanu, V. Ion, A. Andrei, F. Craciun, R. Birjega and M. Dinescu
229.	Biocompatibility studies on $(\text{Ba}_{1-x}\text{Ca}_x)(\text{Zr}_{1-y}\text{Ti}_y)\text{O}_3$ thin films growth by Matrix Assisted Pulsed Evaporation / poster	ROCAM 2015, Bucuresti, Romania, 7-10 Iulie 2015	V. Ion, N.D. Scarisoreanu, M. Icrivezi, A. Andrei, A.I. Bercea, R. Birjega, J. Banita, A. Bonciu, V. Dinca, A. Roseanu, M. Dinescu
230.	Optical and structural characterization of In_2O_3 thin films grown by radiofrequency discharge assisted pulsed laser deposition / poster	ROCAM 2015, Bucuresti, Romania, 7-10 Iulie 2015	A. Nedelcea, M. Dumitru, M. Filipescu, V. Ion, N.L. Dumitrescu, M. Dinescu
231.	Properties of thin film of doped and un-doped BiFeO_3 obtained by pulsed laser deposition / poster	ROCAM 2015, Bucuresti, Romania, 7-10 Iulie 2015	V. Ion, N.D. Scarisoreanu, A. Andrei, S. Antohe, R. Birjega, A.I. Bercea and M. Dinescu
232.	Properties of Thin Film of Doped and Un-Doped BiFeO_3 Obtained By Pulsed Laser Deposition / poster	RICCCE 19, Sibiu, Romania, 2-5 septembrie 2015	V. Ion, N.D. Scarisoreanu, A. Andrei, S. Antohe, R. Birjega, A.I. Bercea, G. Stanciu, M. Dinescu
233.	Properties-of $(\text{Ba}_{1-x}\text{Ca}_x)(\text{Zr}_{1-y}\text{Ti}_y)\text{O}_3$ Epitaxial Thin Films Growth by Pulsed Laser Deposition / poster	RICCCE 19, Sibiu, Romania, 2-5 septembrie 2015	N.D. Scarisoreanu, V. Ion, A. Andrei, F. Craciun, R. Birjega, A.I. Bercea, M. Dinescu



234.	Micro-/nano-engineering surfaces using laser based methods for directing cell behavior at the cell-biomaterial interface in vitro / poster	Fourth International Conference on Multifunctional, Hybrid and Nanomaterials (Hybrid Materials 2015)	V. Dinca, L.E. Sima, L. Rusen, A. Roseanu, M. Dinescu
235.	In vitro evaluation of poly(ethylene glycol)-block-poly(ϵ -caprolactone) methyl ether copolymer coating effects on cells adhesion and proliferation / poster	E-MRS Spring Meeting; 11-15 mai 2015, Lille, Franta; Poster CCPI 56	V. Dinca, P. Neacsu, A. Cimpean, L. Rusen, S. Brajnicov, C. Luculescu, M. Dinescu
236.	Atomic force microscopy study of Polyethylene glycol Polycaprolactone methyl ether copolymer coatings obtained by Matrix Assisted Pulsed Laser Evaporation / poster	The 8 th International Conference on Advanced Materials, ROCAM 17-10 iulie 2015 Bucuresti, Romania	S. Brajnicov, L. Rusen, M. Filipescu, N. L. Dumitrescu, I. Tirca, M. Dinescu and V. Dinca
237.	Study of the solvents influence on the morphological and chemical characteristics of Hydroxyapatite thin films deposited by MAPLE / poster	The 8 th International Conference on Advanced Materials, ROCAM 17-10 iulie 2015 Bucuresti, Romania	N. L. Dumitrescu, I. Tirca, A. Bonciu, V. Marascu, S. Brajnicov; M. Dinescu and V. Dinca
238.	Human mesenchymal stem cells interaction with nano and microtextured surfaces / poster	COLA, Cairnes, Australia, 2015	Valentina Dinca
239.	Laser-Induced Forward Transfer: An approach to single-step multi-functional patterns for biological and sensor applications / lectie invitata	3RD FAST-DOT SUMMER SCHOOL "PHOTONICS MEETS BIOLOGY" 28 September - 2 October 2015, Anissaras, Crete, Greece	Dinca Valentina
240.	Fabrication and characterization of poly(vinyl alcohol)/poly(ethylene glycol) thin films for biological applications / prezentare orala	The 8 th International Conference on Advanced Materials, ROCAM 17-10 iulie 2015 Bucuresti, Romania	I. Tirca, N. L. Dumitrescu, V. Marascu, A. Bonciu, S. Brajnicov, M. Dinescu, V. Dinca
241.	Tunability of the surface morphology of Polyethylene glycol Polycaprolactone methyl ether copolymer coatings obtained by Matrix Assisted Pulsed Laser Evaporation/ prezentare orala	Sesiunea Științifică a Facultății de Fizică, 19 iunie 2015, București, Romania	S. Brajnicov, L. Rusen, M. Filipescu, M. Dinescu and V. Dinca
242.	Growth of $Sr_{x}Ba_{1-x}Nb_{2}O_{6}$ and Ca-doped $Sr_{x}Ba_{1-x}Nb_{2}O_{6}$ thin films on MgO and Nb:SrTiO ₃ substrates by PLD and RF-PLD technique/ poster	COLA, Cairnes, Australia, 2015	Maria Dinescu
243.	Small band-gap thin film of doped and pure BiFeO ₃ obtained by pulsed laser deposition for photovoltaic and photocatalytic applications / poster	COLA, Cairnes, Australia, 2015	Maria Dinescu



244.	Dielectric properties enhancement in epitaxial BCZT thin films with nanoscale strain domains / poster	COLA , Cairnes, Australia,2015	Maria Dinescu
245.	Tailoring the physical properties of plasma mirrors antireflection coatings / poster	COLA , Cairnes, Australia,2015	Maria Dinescu
246.	Sericin-tethered graphene artificial composite matrix obtained by MAPLE for MC3T3-E1 pre-osteoblasts studies / poster	COLA , Cairnes, Australia,2015	Valentina Dinca
247.	Highly sensitive and selective sensor arrays via laser-induced forward transfer / prezentare orală	COLA , Cairnes, Australia,2015	Alexandra Palla-Papavlu
248.	Fabrication of a lab-on-a-chip device by laser micromachining/ poster	COLA , Cairnes, Australia,2015	Alexandra Palla-Papavlu
249.	Thin films of ferrocene derivatives for non-linear optical applications/ Poster	COLA 2015, Cairns, Australia, 31 aug – 4 sept 2015	Andreea Matei, Catalin Constantinescu, Bogdana Mitu, Iulian Ionita, Ana Emandi, Maria Dinescu
250.	PLD of layered double hydroxides for hydrophobic coatings/ Poster	COLA 2015, Cairns, Australia, 31 aug – 4 sept 2015	A.Matei, R. Birjega, A.Vlad, B.Mitu, R.Zavoianu, O.D.Pavel, M.C. Corobea
251.	Ferrocene amino-derivative thin films grown by matrix-assisted pulsed laser evaporation for nonlinear optical applications/ Poster	E-MRS 2015, Lille, Franta, 11-15 mai 2015	A. Matei, C. Constantinescu, V. Ion, B. Mitu, I. Ionita, M. Dinescu, A. Emandi
252.	Thin films of ferrocene-based compounds for non-linear optical applications/ Poster	ROCAM, Bucuresti, Romania, 7-10 iulie 2015	A. Matei, C. Constantinescu, B. Mitu, S. Brajnicov, I. Ionita, M. Dinescu, A. Emandi
253.	Surface morphology and wetting properties of thin layered double hydroxides films produced by laser techniques, / oral	ROCAM, Bucuresti, Romania, 7-10 iulie 2015	A.Matei, B. Mitu, A. Vlad, R. Birjega, M. Dinescu, R. Zavoianu, O. D.Pavel, M. C. Corobea
254.	Analysis of cumulative versus ISO-recommended calculation of damage probability using a database of real S-on-1 tests	SPIE Laser Damage 2015, September 27-30, 2015 Boulder, USA	A. Zorila, A. Stratan, I. Dumitrache, L. Rusen, G. Nemes



255.	Characteristics of transitional metal carbide and nitride films grown by pulsed laser deposition technique. // poster	9th INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE & ENGINEERING; 5-7 March 2015, Brasov, Romania	Socol, G.; Craciun, D.; Stoicanescu, M.; Lambers, E.; Cristea, D.; Milosa, I.; Munteanu, D.; Pantelica, D.; Ionescu, P.; Vasile, B.; Martin, C.; Craciun, V.
256.	Characteristics of amorphous transparent and conductive oxides grown by combinatorial pulsed laser deposition. // invited paper	6th South African Conference on Photonic Materials (SACPM), 4-8 May 2015, Mabula Game Lodge, South Africa	Socol, G.; Axente, E.; Hermann, J.; Galca, A.C.; Pantelica, D.; Ionescu, P.; Becherescu, N.; Martin, C.; Lambers, E.; Craciun, V.
257.	Investigations of mechanical properties of TiC films grown by pulsed laser deposition. // poster	E-MRS Spring Meeting; 11-15 May 2015, Lille, France	Popescu, A.C.; Craciun, D.; Cristea, D.; Stoicanescu, M.; Milos, I.; Lambers, E.; Socol, G.; Craciun, V.
258.	Investigations of the radiation induced effects in pulsed laser deposited thin films. // oral	8th International Conference on Advanced Materials (ROCAM), 7-10 July, Bucharest, Romania	Simeone, D.; Socol, G.; Craciun, D.; Behdad, S.; Boesl, B.; Lambers, E.; Himcinschi, C.; Pantelica, D.; Ionescu, P.; Martin, C.; Vasile, B.; Makino, H.; Craciun, V.
259.	Functionalized antimicrobial thin films for stainless steel implants coatings. // poster	E-MRS Fall Meeting; 15-18 September 2015, Warsaw, Poland	Florioian, L.; Badea, M.; Samoila, C.; Mihailescu, N.; Negut, I.; Craciun, V.; Mihailescu, I.N.
260.	"SE method applied on thin films analysed with two different computer softwares – challenges and difficulties" // oral	"7-th International Workshop Advanced optical and X-ray characterization techniques of multifunctional materials for information and communication technologies, sensing and renewable energy applications", Institute of Physical Chemistry "Ilie Murgulescu", Bucuresti, Romania, 16-18 Septembrie, 2015	H. Stoescu, M. Anastasescu, P. Terzyska, L. Duta, N. Mihailescu, A. Szekeres, M. Gartner
261.	"Titanium surfaces coated with carbon and silver nanoparticles inhibit colonization and biofilm formation of Gram positive bacteria" // poster	"The 6-th EMBO meeting advancing the life sciences", Birmingham, United Kingdom, 5-8 Septembrie, 2015	M. Hussien, A.M. Holban, G. Socol, M. Popa, C. Bleotu, N. Mihailescu, L. Duta, G. Stan, V. Lazar, C. Hapenciu, I. Negut,



			C. Ristoscu, I. Mihailescu, M.C. Chifiriuc
262.	"Nanostructured thin films of reinforced hydroxyapatite with MgF ₂ and MgO transferred by pulsed laser deposition" // poster (II.P.2.)	"11-th International Conference on Optics "Micro- to Nano-Photonics IV" (ROMOPTO), Bucuresti, Romania, 1-4 Septembrie, 2015	N. Mihailescu, G. E. Stan, M. C. Chifiriuc, C. Bleotu, L. Duta, I. Urzica, C. Luculescu, F. N. Oktar, I. N. Mihailescu
263.	"Photocatalytic nanocomposite materials grown by matrix assisted pulsed laser evaporation" // prezentare orală (CC.32)	Simpozionul CC, EMRS Spring Meeting, Lille, Franta, 11-15 Mai 2015	A. Datcu, L. Duta, A. Perez del Pino, C. Luculescu, C. Logofatu, A. Enesca, A. Duta, E. Gyorgy
264.	Electrical properties of Ni-YSZ Thin Film for Solid Oxide Fuel Cells	E-MRS Spring Meeting; 11-15 mai 2015, Lille, Franta; Poster CC 59	R.Pascu, G. Epurescu, S. Somacescu, R.Birjega, B. Mitu, V. Ion, M. Dinescu
265.	Caracterizarea Optica si Structurala a Straturilor Subtiri de YSZ Depuse prin PLD Utilizate ca Dielectrici in Configuratia Planara a Minisenzorilor de Oxigen	Annual Scientific Conference, Bucharest University Faculty of Physics 2015 Meeting Section 6, Optics, Spectroscopy, Plasma and Lasers, pp.118, 2015, Prezentare	R. Pascu, G. Epurescu, B. Mitu A. Moldovan, R. Birjega, D. Colceag, M. Dinescu
266.	Organo-layered double hydroxides composite thin films deposited by laser techniques	E-MRS Spring Meeting, 11-15 May 2015, Lille, Franta; PP CC.25 Session CC.PI	Birjega R; Matei A; Vlad A; Mitu B; Dumitru M; Ionita MD; Dinescu M; Zavoianu R; Pavel OD; Corobea MC;
267.	Fabrication of a flexible photodetector by laser-induced forward transfer	E-MRS Spring Meeting, 11-15 May 2015, Lille, Franta; O:CC.5 Session CC.3	Palla Papavlu A; Antohe S; Lippert3 T; Dinescu M;
268.	Growth of epitaxial SrxBa1-xNb ₂ O ₆ and Ca- doped SrxBa1-xNb ₂ O ₆ thin films by PLD for optical and electro-optical devices	E-MRS Spring Meeting, 11-15 May 2015, Lille, Franta; PP CC.58 Session CC.PI	Scarisoreanu ND; Birjega R; Ion V; Andrei A; Stanciu G; Dinescu M;
269.	Dynamic release layer-laser induced forward transfer of SnO ₂ -carbon nanostructures composites for sensors application	E-MRS Spring Meeting, 11-15 May 2015, Lille, Franta; PP CC.72 Session CC.PI	Filipescu M; Palla Papavlu A; Sandra Temmel; Teodorescu VS; Lippert T; Dinescu M;
270.	Growth of antireflection coatings by laser and plasma methods for ultra-short high power laser applications	E-MRS Spring Meeting, 11-15 May 2015, Lille, Franta; PP CC.73 Session CC.PI	Filipescu M; Ion V; Dumitrescu NL; Colceag D; Dinescu M



271.	Laser based methods for functional surface engineering	RSBMB Anniversary Conference: "RSBMB - 25 years of promoting molecular life sciences in Romania", 17-18 septembrie 2015, Bucuresti, Vol.abstr. pg. 100	Valentina D; Sima LE; Icriverzi M; Laurentiu R; Paula F; Dinescu M; Roseanu A;
272.	Smart hybrid biomimetic coated titanium bioalloy in vitro cellular response	Simpozionul international „Prioritatile chimiei pentru o dezvoltare durabila”, 29-30 octombrie 2015, Bucuresti, vol.abstr.pg.120	Icriverzi M; Sima L; Dumitrescu N; Marascu V; Dinca V; Roseanu A;
273.	Antireflective coatings obtained by laser-plasma methods for high power laser optical compounds	Conferinta XXXII ICPIG Iasi; Romania 26-31 Iulie 2015; P3.23	Bercea AI; Dumitrescu LN; Brajnicov S; Filipescu M; Ion V; Colceag D; Dinescu M;
274.	Nanostructured cerium oxide thin films grown by laser ablation	Conferinta E-MRS Fall Meeting, Varsovia, Polonia, 15-18 Septembrie 2015 (V-II-7)	E. S. Bârcă, C. Luculescu, M. Filipescu, V. Ion, N.L. Dumitrescu, M. Dinescu, M. Abrudeanu, C. Munteanu
275.	Captopril drug-delivery systems via matrix assisted pulsed laser evaporation	Conferinta EMRS Spring Meeting, Lille, Franta, 11-15 mai 2015, (P-26)	I. Tirca, A. Palla-Papavlu, M. Filipescu, V. Dinca, L. Cremer, A. Calugaru, E. Vlase, C. Coman, M. Dinescu
276.	Characterization of Mg-Al, Ni-Al AND Ni,Mg-Al layered double hydroxides thin films deposited by PLD	ROCAM 17-10 July 2015 Bucharest, Romania; Section3 P-807	Vlad A; Birjega R; Matei A; Ion V; Dumitru M; Stokker F; Dinescu M; Zavoianu R; Pavel O.D.;
277.	Dielectric spectroscopy of polar nanostructured materials	ROCAM 17-10 July 2015 Bucharest, Romania; Section5 O-830	Craciun F; Scarisoreanu N.D; Birjega R; Dinescu M;
278.	Thin film production from a compressible organic target by laser irradiation: from material destruction at high target pressure to material drop-out at low pressure	COLA 2015 International Conference on Laser Ablation 2015, 31 August - 4 September 2015 Cairns, Australia; P-173	Constantinescu C; Matei A; Dinescu M; Jørgen Schou;
279.	Fast atomic diffusion in solid state amorphous thin films irradiated with low fluence laser pulse in UVV.S	COLA 2015 International Conference on Laser Ablation 2015, 31 August - 4 September 2015 Cairns, Australia; P-200;	Teodorescu, C. Ghica, A.V. Maraloiu, A. Kuncser, A.M. Lepadatu, I. Stavarache, M.L. Ciurea, N.D. Scarisoreanu, A. Andrei, M. Dinescu



280.	Resonant Ultrasound Spectroscopy of some Tetragonal Tungsten Bronze ceramics	12th Mediterranean Conference on Calorimetry and Thermal Analysis, MEDICTA 2015, Iunie, 2015, Girona, Spania; Book of abstracts, 180 pag., 2015.	Rotaru A, Schiemer J, Gardner J, Morrison FD, Carpenter MA.
281.	Thin films of tetragonal tungsten bronze structure with the nominal formula $Ba_6GaNb_9O_3$, obtained by Pulsed Laser Deposition"	12th Mediterranean Conference on Calorimetry and Thermal Analysis, MEDICTA 2015, Iunie, 2015, Girona, Spania; Book of abstracts, 179 pag., 2015.	Rotaru A, Scarisoreanu ND, Ion V, Alexe M, Dinescu M, Morrison FD,
282.	Relaxation processes in tetragonal tungsten bronzes by dielectric spectroscopy and resonant ultrasound spectroscopy	3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry CEEC-TAC3, August, 2015, Ljubljana, Slovenia; Book of abstracts of the 3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry, 251 pag., 2015.	Rotaru A, Palaimiene E, Ivanov M, Banys J, Morrison FD, Carpenter MA,
283.	Thermal investigation of organo-modified Mg- Al and Zn-Al layered double hydroxides	3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry CEEC-TAC3, August, 2015, Ljubljana, Slovenia; Book of abstracts of the 3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry, 314 pag., 2015.	Birjega R, Dumitru M, Rotaru A, Vlad A, Zavoianu R,
284.	Thermal analysis of some composite powders used for spot welding electrodes	3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry CEEC-TAC3, August, 2015, Ljubljana, Slovenia; Book of abstracts of the 3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry, 344 pag., 2015.	Nicolicescu C, Rotaru A, Criveanu M, Nicoara VH, Popa F, Marinca TF,
285.	Effect of milling time on the thermal behaviour of W/Cu composite powders	3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry CEEC-TAC3, August, 2015, Ljubljana, Slovenia; Book of abstracts of the 3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry, 345 pag., 2015.	Nicolicescu C, Rotaru A, Criveanu M, Nicoara VH, Popa F, Marinca TF,
286.	Two azomonoethers isomers, dimethyl dichloro substituted: thermal and spectral behaviour	3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry CEEC-TAC3, August, 2015, Ljubljana, Slovenia; Book of abstracts of the 3rd Central and Eastern European Conference on Thermal Analysis	Moanta A, Rotaru A, Rotaru P,



		and Calorimetry , 433 pag., 2015.	
287.	Thermal and kinetic analysis of some azononoetheric liquid crystals and thin films by MAPLE technique	3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry CEEC-TAC3, August, 2015, Ljubljana, Slovenia; Book of abstracts of the 3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry , 434 pag., 2015.	Rotaru A, Moanta A, Dumitru M, Constantinescu C, Manolea HO, Andrei A, Dinescu M,
288.	Thermal analysis and laser processing in organic electronics	3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry CEEC-TAC3, August, 2015, Ljubljana, Slovenia; Book of abstracts of the 3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry , 435 pag., 2015.	Constantinescu C, Rotaru A,
289.	Combinatorial Pulsed Laser Deposition of Amorphous, Transparent and Conductive Oxides for Thin Film Transistors / invited paper	MRS Spring Meeting; 6-10 April 2015, San Francisco, California, USA	Craciun, V.; Socol, G.; Axente, E.; Craciun, D.; Hermann, J.; Galca, A.; Pantelica, D.; Ionescu, P.; Luculescu, C.; Becherescu, N.; Martin, C.
290.	Self-Protective Oxide Nano-Coatings for Enhanced Surface Biocompatibility of Titanium / poster	MRS Spring Meeting; 6-10 April 2015, San Francisco, California, USA	Ozdemir, Z.; Craciun, V.; Basim, B.G.; Mal, J.
291.	Pulsed laser deposition of new high-tech materials / invited paper	International year of the light – Science section; 30th October - 1st November 2015, Bucharest, Romania	Craciun, V.
292.	Doped and undoped oxides prepared by RF magnetron sputtering and vacuum thermal evaporated techniques / poster	E-MRS Spring Meeting 2015, Lille, France	Prepelita, P.; Craciun, V.; Garoi, F.; Filipescu, M.; Tozar, T.; Cristea, D.
293.	Structural investigations of CIGS thin films deposited by magnetron sputtering technique / poster	15th International Balkan Workshop on Applied Physics and Materials Science (IBWAP), 2-4, July, 2015, Constanta, Romania	Prepelita, P.; Craciun, V.; Garoi, F.
294.	Optoelectronic behaviour and structural characterization of doped oxide ultra-thin films / poster	2nd International Conference on Surfaces, Coatings and Nanostructured Materials, 24-27 March 2015, Kayseri, Turkey	Prepelita, P.; Craciun, V.
295.	Optical characterization of transparent conductive oxides thin films for plasmonic selective applications / poster	4th Nano Today Conference, 6-10 December 2015, Dubai, UAE	Prepelita, P.; Craciun, V.



296.	Oxide semiconductors thin films grown by different techniques	57th Electronic Materials Conference, 24-26 June 2015, Columbus, Ohio, US	Prepelita, P.; Craciun, V.
297.	Thermal characteristics of co-doped borophosphate glass / poster	Materials 2015 International Conference, 21-23 June 2015, Porto, Portugal	Lopes, A.; Lima, M.M.R.A.; Veiga, J.P.; Sava, B.; Boroica, L.; Elisa, M.; Ulieru, D.; Monteiro, R.C.C.
298.	Magneto-optical and magnetic properties of doped aluminophosphate glasses / poster	20th International Conference on Magnetism, 5-10 July 2015, Barcelona, Spain	Sofronie, M.; Catalin Galca, A.; Tolea, F.; Kuncser, V.; Valeanu, M.; Elisa, M.; Iordanescu, C. R.; Feraru, I. D.; Sava, B. A.; Boroica, L.
299.	Influence of CoO addition on the crystallization of a borophosphate based glass / oral presentation	11th International Symposium on Crystallization in Glasses and Liquids, 11-14 October 2015, Nagaoka, Japan	Monteiro, R. C. C.; Lopes, A. A. S.; Lima, M. M. R. A.; Veiga, J. P. B.; Sava, B.; Boroica, L.; Elisa, M.; Ulieru, D.
300.	Silver nanostructured surfaces prepared by MAPLE for biofilm prevention / poster	8th International Romanian Conference on Advanced Materials (ROCAM), 7-10 July 2015, Bucharest, Romania	Fufă, O.; Oprea, A.E.; Andronescu, E.; Grumezescu, V.; Holban, A.M.; Mogoantă, L.; Mogoșanu, G.D.; Socol, G.; Iordache, F.; Grumezescu, A.M.
301.	Functional medical surfaces based on silver nanostructures prepared by MAPLE / poster	19th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), 2-5 September 2015, Sibiu, Romania	Fufă, O.; Andronescu, E.; Oprea, A.E.; Grumezescu, A.M.; Grumezescu, V.; Mogoantă, L.; Mogoșanu, G.D.; Socol, G.; Holban, A.M.; Chifiriuc, C.M.
302.	Orientation distribution function of biotite platelets based on optical, thin section and micro-ct images in an Outokumpu (Finland) biotite gneiss: comparison with neutron diffraction texture analysis	15th International Balkan Workshop on Applied Physics and Materials Science, Constanta, Romania; 07/2015	<u>Tatiana I., Ivankina O.G.</u> Duliu, E. Herman, I. Tiseanu, C. Ricman
303.	New developments in JET gamma emission tomography	1st TM IAEA on Fusion Data Processing, Validation and Analysis, Nice, France; 06/2015	<u>T. Craciunescu, A. Murari, V. Kiptily, I. Lupelli, A. Fernandes, S. Sharapov, I. Tiseanu, V. Zoita</u>



304.	Kinetic resonances effect on magnetic braking in tokamaks	42nd European Physical Society Conference on Plasma Physics, 22-26 June 2015, Lisbon, Portugal.	Miron, I.G.
305.	Degradation of organic compounds in water by corona discharge combined with ozonation / poster	ICPIG 2015 (International Conference on the Physics of Ionized Gases), Iasi, Romania, 26-31.07.2015	M. Magureanu, D. Dobrin, C. Bradu, N.B. Mandache, V.I. Parvulescu
306.	Langmuir probe characterization of electron beam ablation plasmas	International Conference on Processes in Ionized Gases (32nd ICPIG), Iasi, Romania 27-31 iulie 2015.	M.Nistor, F.Gherendi, N.B.Mandache
307.	Transparent Nd doped ZnO thin films on MgO(001): from semiconductor to metal	European Materials research Society (E-MRS) Spring Meeting 2015, 11-15 May 2015, Lille, France	M. Nistor, C. Hebert, J Perriere, E. Millon, N. Jedrecy
308.	Tunable electrical properties of large area ZnO thin films grown at room temperature	European Materials research Society (E-MRS) Spring Meeting 2015, 11-15 May 2015, Lille, France	F.Gherendi, M.Nistor, N.B.Mandache
309.	Structural and physical properties of Zn _{1-x} Fe _x O thin films	European Materials research Society (E-MRS) Spring Meeting 2015, 11-15 May 2015, Lille, France	C. Hebert, N. Jedrecy, J. Perrière, E. Millon, M. Nistor
310.	On the relevance of large scale PLD: evidence of structural heterogeneities in ZnO thin films	European Materials research Society (E-MRS) Spring Meeting 2015, 11-15 May 2015, Lille, France	J. Perrière, C. Hebert, N. Jedrecy, W. Seiler, O. Zanellato, X. Portier, R. Perez-Casero, E. Millon, M. Nistor
311.	UV random lasing action in GaN film optically pumped at 266 nm	European Materials research Society (E-MRS) Spring Meeting 2015, 11-15 May 2015, Lille, France	C. Cachoncinlle, E.Millon, N. Gosset, M. Nistor, A. Petit
312.	Pulsed-laser deposition of Nb/Nd-codoped TiO _x (1.5<x<2) thin films for TCO-based devices	European Materials research Society (E-MRS) Spring Meeting 2015, 11-15 May 2015, Lille, France	C. Tchiffo-Tameko, E. Millon, C. Cachoncinlle, C. Boulmer-Leborgne, A. Petit, J. Perriere, M. Nistor
313.	Magnetism and resistivity of Zn _x Fe _{3-x} O ₄ thin films	European Materials research Society (E-MRS) Spring Meeting 2015, 11-15 May 2015, Lille, France	C. Hebert, N. Jedrecy, M. Nistor, E. Millon
314.	Evidence of structural heterogeneities in ZnO thin films grown by pulsed laser deposition	8th International Conference on Advanced Materials (ROCAM 2015), 7-10 July 2015, Bucharest, Romania	M. Nistor, J. Perrière, C. Hebert, N. Jedrecy, W. Seiler, O. Zanellato, X. Portier, R.Perez-Casero, E. Millon
315.	Multi-layer and self-assembled In ₂ O ₃ thin film transistors produced by pulsed electron beam deposition	8th International Conference on Advanced Materials (ROCAM 2015), 7-10 July 2015, Bucharest, Romania	F.Gherendi, M.Nistor, N.B.Mandache
316.	Study on the axial distribution	15-th International Balkan	O. S. Stoican



	of the stored microparticles in an electrodynamic trap by using software image processing	Workshop on Applied Physics, July 2-4, 2015, Constanța, România	
317.	Study of the dynamics of a particle confined in an Electrodynamic Linear Trap	9th International Physics Conference of the Balkan Physical Union, 24-27 August 2015, Istanbul, Turkey	G. Vișan, B. Mihalcea
318.	The filamentation of a laser beam as a labyrinth instability	4th International Conference on Mathematical Modeling in Physical Sciences, June 5-8, 2015, Mykonos, Greece	Spineanu F, Vlad M
319.	Turbulence modeling using test modes	4th International Conference on Mathematical Modeling in Physical Sciences, June 5-8, 2015, Mykonos, Greece	Vlad M, Spineanu F
320.	Balance of magnetic stochasticity and plasma rotation with effect on instabilities	597th Wilhelm and Else Heraeus Seminar on "Stochasticity in fusion plasmas", September 10-12, 2015, Bad Honnef, Germany	Spineanu F, Vlad M
321.	Stochastic and quasi-coherent aspects in test particle statistics and their effects on turbulence evolution	597th Wilhelm and Else Heraeus Seminar on "Stochasticity in fusion plasmas", September 10-12, 2015, Bad Honnef, Germany	Vlad M, Spineanu F
322.	Graphene based structures for solar investigations	Storm 2015, 6 -13 September, Mamaia, Romania	A. Zubarev
323.	Thermo-mechanical properties of W/Mo markers coatings deposited on bulk W	15-th International Conference on Plasma Facing Material and Components, Aix en Provence, 2015	E Grigore, C Ruset, M Gherendi, D Chioibas, A Hakola
324.	Investigation on the erosion/deposition processes in the ITER-like Wall divertor at JET using Glow Discharge Optical Emission Spectrometry technique	15-th International Conference on Plasma Facing Material and Components, Aix en Provence, 2015	C. Ruset, E. Grigore, C. Luculescu, I. Tiseanu, J. Likonen, M. Mayer, M. Rubel G. F. Matthews
325.	Analysis of pores formation during intensive thermal cycling for CFC tiles with W-coating	15-th International Conference on Plasma Facing Material and Components, Aix en Provence, 2015	C. Desgranges, M. Firdaouss, C. Hernandez C. Martin, C. Ruset, E. Grigore, M. Missirlian, F. Samaille, J. Bucalossi
326.	Tungsten coatings for application in WEST project	7-th International Conference on Fusion Reactor Materials ICFRM, 2015, Aachen, Germania	E. Grigore, M. Gherendi, C. Hernandez, C. Desgranges
327.	Kinetic resonances effect on magnetic braking in tokamaks	42-nd European Physical Society Conference on Plasma Physics, 22-26 June 2015, Lisbon, Portugal	I.G. Miron
328.	X-ray and UV to NIR optical excitation of luminescence in	The 8th Congress on X-ray analytics for industrial processes	D. Avram, C. Tiseanu, I. Tiseanu



	doped nanoparticles for bioimaging, spectral converters and telecommunication	(PRORA 2015), Berlin, Germania, 11-13.11.2015	
329.	Selective bacterial invasion of bone - Evidence of inter-bacterial communication	European Biotechnology Congress Location: Bucharest, ROMANIA Date: MAY 07-09, 2015	Coman, Cristin; Bob, Cristina Surdu; Tiseanu, Ion; et al.
330.	MAPLE obtained metal phtalocyanines thin films on flexible substrates	8th International Conference on Advanced Materials (ROCAM 2015), 7-10 July 2015, Bucharest, Romania	Socol, M; Preda, N; Rasoga, O; Breazu, C; Stanculescu, F; Socol, G; Gherendi, F; Girtan, M
331.	Plasma Crystals of Charged Microparticles confined under Standard Temperature and Pressure (STP) conditions	32nd ICPIG, July 26-31, 2015, Iași, România	B. Mihalcea, O. Stoican, V. S. Filinov, D. S. Lapitsky, A. Groza, A. Surmeian, C. Diplășu, V. E. Fortov, L. V. Deputatova, L. M. Vasilyak, V. I. Vladimirov, V. Ya. Pecherkin, R. A. Syrovatka, M. Ganciu
332.	A New Mass Spectrometry Analytical Method Assisted by Laser Desorption	32nd ICPIG, July 26-31, 2015, Iași, Romania	A. Surmeian, C. Diplășu, A. Groza, B. Mihalcea, M. Ganciu
333.	Anodization process analysis of the aluminum surfaces in corona discharge	32nd ICPIG, July 26-31, 2015, Iași, Romania	A. Groza, A. Surmeian, C. Diplășu, C. Luculescu, B. Mihalcea, M. Ganciu
334.	Testing of ZnSe , CaF ₂ , BaF ₂ , and sapphire windows under alpha particles irradiation/poster	The 3rd International Conference and Exhibition on Lasers, Optics & Photonics 2015, Valencia, September 1-3, 2015; J Phys Chem Biophys 2015 Volume 5 Issue 4, http://dx.doi.org/10.4172/2161-0398.C1.014	Mihai L, Sporea D, Sporea A, Văta I
335.	Investigations of proton irradiation effects on IR windows / oral	Sesiunea stiintifica anuala a Facultatii de Fizica, Bucharest, 19 Iunie 2015, Romania	D. Sporea, L. Mihai, A. Stancalie, M. Straticiu, I. Burducea
336.	Gamma irradiated IR windows / poster	International Conference ROMOPTO 2015, Bucharest, September 1 - 4, 2015	D, Sporea , L. Mihai , A. Stancalie , D. Negut
337.	Characterization of mid-IR detectors / poster	International Conference ROMOPTO 2015, Bucharest, September 1 - 4, 2015	D. Sporea , L. Mihai , A. Sporea
338.	Ionizing radiation dosimetry with optical fibers/ lucrare invitata	The 3rd International Conference on Lasers, Optics and	D. Sporea



		Photonics, Valencia, Spania, 01-03 septembrie 2015.	
339.	Optical fibers behaviour under ionizing radiations/ lucrare invitata	The 11 th International Conference Micro- to Nano-Photonics IV- ROMOPTO 2015, Bucuresti, 1 - 4 septembrie, 2015	D. Sporea, A. Sporea, L. Mihai, A. Stancalie
340.	Optical and THz evaluation of components for gas sensing spectroscopy in hazardous environments /poster	NATO ARW on THz Diagnostics of CBRN Effects and Detection of Explosives & CBRN, Izmir, November 3-6, 2015	D. Sporea, L. Mihai, A. Sporea, D. Ighigeanu, D. Negut
341.	Improved QCL's beam delivery using HCW for applications in 3.7 – 10.3 μm spectral range/ poster	NATO ARW on THz Diagnostics of CBRN Effects and Detection of Explosives & CBRN, Izmir, November 3-6, 2015	L. Mihai, D. Sporea, P. Patimisco, A. Sampaolo, J. M. Kriesel, V. Spagnolo
342.	LT-InP Film For Ewod Technology For THz Applications/ oral	3 Annual Conference of COST Action MP1204 and 6 International Conference on Semiconductor Mid-IR Materials and Optics SMMO2015, Prague, Czech Republic, April 8 - 11, 2015	L. Sirbu, L. Mihai, A. Ionescu, A. Stefan, A. Baracu, R. Voicu, T. Dascalu, R. Muller
343.	Gamma Radiation-Induced Formation of Bismuth Related Active Centre in Bi/Er/Yb Co-doped Fibre/ poster	Asia Communications and Photonics Conference (ACP) • 19 November 2015–23 November 2015 • Page 51; ASu2A.56	Binbin Yan, Yanhua Luo, Dan Sporea, Laura Mihai, Daniel Negut, Xinzhu Sang, Jianxiang Wen, Gui Xiao, Gang-Ding Peng
344.	Comparative assessment of equipments for optical fiber sensors interrogation /poster	International Conference ROMOPTO 2015, Bucharest, September 1 - 4, 2015	Andrei Stancalie, Laura Mihai, Dan Sporea
345.	Effects of gamma rays on rare Bi/Er co-doped optical fibers / poster	International Conference ROMOPTO 2015, Bucharest, September 1 - 4, 2015	Dan Sporea, Laura Mihai, Daniel Negut, Yanhua Luo, Binbin Yan, Mingjie Ding, Gang-Ding Peng
346.	Influence of support conditions and temperature on the EMI characteristics /oral	The 11 th International Conference on Damage Assessment of Structures - DAMAS 2015, Ghent University, Belgia, 24-26 august 2015.	A Stancalie, D Sporea, P Malinowski, M Mieloszyk, S Opoka, T Wandowski, W Ostachowicz
347.	Promoting inquiry-based science education in Romanian schools/ oral	2nd International Conference on Education and Social Sciences - INTCESS 2015, 2-4 februarie, 2015, Istambul, Turcia	Adelina Sporea, Dan Sporea, Cristian Iacob, Vasile Pais
348.	Survey on teachers attitude towards science teaching /poster	International Conference New Perspectives in Science Education, 20-21 martie 2015, Florenta, Italia	Adelina Sporea, Dan Sporea
349.	Attitudes, values and beliefs of	Sesiunea stiintifica anuala a	Sari Havu-



	Early years science teachers on inquiry instruction - a comparative study for Finland and Romania/ oral	Facultății de Fizica, Bucharest, 19 iunie 2015.	Nuutinen, Adelina Sporea, Dan Sporea
350.	Projects on inquiry-based science teaching run by the Center for Science Education and Training / oral	Sesiunea științifică anuală a Facultății de Fizica, Bucharest, 19 iunie 2015.	Adelina Sporea, Dan Sporea
351.	The build-up of a national community of practice in science teaching / oral	The twelfth annual conference on Hands-on Science, HSCI2015 - Brightening our future, Funchal, Madeira Island, Portugal, July 27th to 30th 2015.	Adelina Sporea, Dan Sporea
352.	Gamma Radiation Induced Effects in Perfluorinated Polymer Optical Fibers for Sensing Applications /oral	POF Simulation beyond Data Transmission: Summary of the 3rd International POF Modelling Workshop 2015, 95-103 (2015)	P Stajanca, D Sporea, L Mihai, D Negut, M Schukar, K Krebber
353.	Evaluation in Romania of a free-space optical communication link under extreme weather conditions/poster	Romopto 1-4 sept 2015	Mihai A. Savescu, Andrei Stancalie, Dan Sporea, Luka Mustafa
354.	Growth of particles in plasma at low and atmospheric pressure starting from metallic targets / invited lecture code INV	75th IUVESTA Workshop on Sheath Phenomena in Plasma Processing of Advanced Materials, Cerklje, Slovenia, 19-23 January 2015	Dinescu G., Lazea-Stoyanova A., Acseente T., Teodorescu V.S., Marascu V.
355.	Atmospheric pressure processing with cold radiofrequency plasma jets / invited lecture PR-6	19th International summer School on Vacuum, Electron, Ion Technologies, Sozopol, Bulgaria, 21-25 September 2015	Dinescu G.
356.	Tritium absorption and release from tokamak tungsten relevant dust: consequences on tokamak operation and safety / invited lecture	International Workshop on Environmental, Safety and Economic Aspects of Fusion Power, organized by the International Energy Agency (IEA), Jeju Island, South Korea, 12-13 September 2015.	Grisolia C., Jambon F., Bernard E., Hodille E., Chêne J., Garcia-Argote S., Pieters G., Vrel D., Dine S., Malard V., George I., Gensdarmes F., Monsanglant-Louvet C., Peillon S., Dinescu G., Ascente T., Orsieres T., Ubaldi C., Sanles M., Rose J., Fournier P., Herlin N., Delaporte Ph., Rousseau B
357.	Plasma synthesis, processing and applications of carbon nanowalls/oral presentation code	Spring Meeting European Materials Research Society (EMRS), Lille, France, 11-15 May 2015	Vizireanu S., Stoica S. D., Ionita M. D., Mitu B., Stancu C.,



	CC.14 2		Lazea Stoyanova A., Luculescu C., Nistor L., Dinescu G.
358.	Surface modification of PMMA foils using an atmospheric pressure plasma jet in presence of water vapors / oral presentation code 844	8th International Conference on Advanced Materials (ROCAM), Bucharest, Romania, 7-10 July 2015	Acsente T., Ionita M.D., Teodorescu M., Marascu V., Dinescu G.
359.	Tritium absorption and release from tokamak tungsten dust / oral presentation code O5B.2	12th International Symposium on Fusion Nuclear Technology, Jeju Island, Korea, 14 -18 September 2015	Grisolia C., Jambon F., Bernard E., Hodille E., J.Chêne, Garcia- Argote S., Pieters G., Vrel D., Dine S., Malard V., George I., Gensdarmes F., Monsanglant-Louvet C., Peillon S., Dinescu G., Ascente T., Orsieres T., Uboldi C., Sanles M., Rose J., Fournier P., Herlin N., Delaporte Ph., B. Rousseau
360.	Cells behaviors on argon plasma treated pNIPAAm thin films / proceeding paper	32nd International Conference on Phenomena in Ionized Gases (ICPIG), Iasi, Romania, 26-31 July 2015 http://www.icpig2015.net/Content/Posters/id154_Bogdana_MITU.pdf	Satulu V., Dinca V., Bacalum M., Mustaciosu C., Mitu B., Dinescu G.
361.	Cells behaviors on argon plasma treated pNIPAAm thin films / poster presentation code P4.53	32nd International Conference on Phenomena in Ionized Gases (ICPIG), Iasi, Romania, 26-31 July 2015	Satulu V., Dinca V., Bacalum M., Mustaciosu C., Mitu B., Dinescu G.
362.	A spectral study of a single- electrode filamentary plasma jet in Argon and Argon-Nitrogen / proceeding paper	32nd International Conference on Phenomena in Ionized Gases (ICPIG), Iasi, Romania, 26-31 July 2015 http://www.icpig2015.net/Content/Posters/id131_Maximilian-Vlad_TEODORESCU.pdf	Teodorescu M., Bazavan M., Dinescu G.
363.	A spectral study of a single- electrode filamentary plasma jet in Argon and Argon-Nitrogen / poster presentation code P1.57	32nd International Conference on Phenomena in Ionized Gases (ICPIG), Iasi, Romania, 26-31 July 2015	Teodorescu M., Bazavan M., Dinescu G.
364.	Modification of W-C mixtures sintered at various temperatures by radiofrequency plasma jet	32nd International Conference on Phenomena in Ionized Gases (ICPIG), Iasi, Romania, 26-31 July	Stancu C., Galatanu A., Matei E., Vlaicu A.M., Grisolia



	operated in nitrogen / proceeding paper	2015 http://www.icpig2015.net/Content/Posters/id99_Cristian_STANCU.pdf	C., Dinescu G.
365.	Modification of W-C mixtures sintered at various temperatures by radiofrequency plasma jet operated in nitrogen / poster presentation code P3.46	32nd International Conference on Phenomena in Ionized Gases (ICPIG), Iasi, Romania, 26-31 July 2015	Stancu C., Galatanu A., Matei E., Vlaicu A.M., Grisolia C., Dinescu G.
366.	Influence of substrate temperature on the plasma and carbon material properties in a low pressure RF plasma jet deposition system /proceeding paper	32nd International Conference on Phenomena in Ionized Gases (ICPIG), Iasi, Romania, 26-31 July 2015 http://www.icpig2015.net/Content/Posters/id98_Silviu-Daniel_STOICA.pdf	Stoica S. D., Vizireanu S., Luculescu C. R., Bazavan M., Mitu B., Dinescu D.
367.	Influence of substrate temperature on the plasma and carbon material properties in a low pressure RF plasma jet deposition system/poster presentation code P3.45	32nd International Conference on Phenomena in Ionized Gases (ICPIG), Iasi, Romania, 26-31 July 2015	Stoica S. D., Vizireanu S., Luculescu C. R., Bazavan M., Mitu B., Dinescu D.
368.	Management of polymeric spheres diameter in colloidal lithography by low and atmospheric pressure plasma treatments / proceeding paper	32nd International Conference on Phenomena in Ionized Gases (ICPIG), Iasi, Romania, 26-31 July 2015 http://www.icpig2015.net/Content/Posters/id95_Gheorghe_DINESCU.pdf	Ionita M. D., Kontziampasis D., Mitu B., Smyrnakis A., Gogolides E., Dinescu G.
369.	Management of polymeric spheres diameter in colloidal lithography by low and atmospheric pressure plasma treatments / poster presentation P3.57	32nd International Conference on Phenomena in Ionized Gases (ICPIG), Iasi, Romania, 26-31 July 2015	Ionita M. D., Kontziampasis D., Mitu B., Smyrnakis A., Gogolides E., Dinescu G.
370.	Modification of carbon nanowalls/water suspension by submerged plasma jets / poster presentation code WG4-3	2nd Annual Meeting COST TD1208 „Electrical discharges with liquids for future applications”, Barcelona, Spain, 23-26 February 2015	S. Vizireanu, M.D.Ionita, S.D. Stoica, M. Ionita, G. Dinescu
371.	Properties of track membranes modified by plasma not polymerize gases / oral presentation	Institute of Physical Chemistry and Electrochemistry named after AN Frumkin of the Russian Academy of Sciences of the 6th All-Russian seminar Physical chemistry of surfaces and nanostructures, Moscow, Russia, 3 - 4 February 2015	Kravets L. I., Yablokov M. Tu., Gilman A.B., Mitu B., Dinescu G.
372.	Micro- and nano fluid diodes based on polyethylene	Institute of Physical Chemistry and Electrochemistry named after	Kravets L.I., Ibragimov R.G.,



	terephthalate track membranes / oral presentation	AN Frumkin of the Russian Academy of Sciences of the 6th All-Russian seminar Physical chemistry of surfaces and nanostructures Moscow, Russia, 3 - 4 February 2015	Dinescu G.
373.	Tailoring polymeric nanospheres with low and atmospheric pressure plasma etching / poster presentation code P32	Joint Conference of COST ACTIONS TD1208 "Electrical discharges with liquids for future applications" & MP1101 "Biomedical Applications of Atmospheric Pressure Plasma Technology", Bertinoro, Italy, 13-16 September 2015	Kontziampasis D., Ionita M.D., Smyrnakis A., Mitu B., Gogolides E., Dinescu G.
374.	Tungsten dust in fusion tokamaks: impact of morphology and characteristics of various W nano-particles on tritium retention and desorption / poster presentation code PO 3-92	17th International Conference On Fusion Reactor Materials (ICFRM), Eurogress Aachen, Germany, 11-16 October 2015	Bernard E., Jambon F., George I., Chêne J., Garcia-Argote S., Pieters G., Malard V., Vrel D., Dine S., Gensdarmes F., Monsanglant-Louvet C., Peillon S., Ascente T., Dinescu G., Hodille E., Sanles M., Rose J., Herlain N., Rousseau B., Delaporte P., Grisolia C.
375.	Structure and electro transport properties of track-etched membranes modified by plasma polymerization of organic compounds /proceeding paper	22nd International Symposium on Plasma Chemistry (ISPC), Antwerp, Belgium, 5-10 July 2015 http://www.ispc-conference.org/ispcproc/ispc22/P-III-6-27.pdf	Kravets L., Gilman A.B., Yablokov M., Satulu V., Mitu B., Dinescu G.
376.	Structure and electro transport properties of track-etched membranes modified by plasma polymerization of organic compounds / poster presentation code P-III-6-27	22nd International Symposium on Plasma Chemistry (ISPC), Antwerp, Belgium, 5-10 July 2015	Kravets L., Gilman A.B., Yablokov M., Satulu V., Mitu B., Dinescu G.
377.	Shadowgraphy investigations of a filamentary atmospheric plasma jet / proceeding	22nd International Symposium on Plasma Chemistry (ISPC), Antwerp, Belgium, 5-10 July 2015 http://www.ispc-conference.org/ispcproc/ispc22/P-I-2-13.pdf	Teodorescu M., Ionita E. R., Dinescu G.
378.	Shadowgraphy investigations of a filamentary atmospheric plasma jet / poster presentation code P-I-	22nd International Symposium on Plasma Chemistry (ISPC), Antwerp, Belgium, 5-10 July 2015	Teodorescu M., Ionita E. R., Dinescu G.



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379.	Comparison of plasma jets generated by a Dielectric Barrier Discharge (DBD) and Discharge with Bare Electrodes (DBE) by double probe measurements / proceeding	22nd International Symposium on Plasma Chemistry (ISPC), Antwerp, Belgium, 5-10 July 2015 http://www.ispc-conference.org/ispcproc/ispc22/P-I-2-15.pdf	Ionita E. R., Bazavan M., Teodorescu M., Dinescu G.
380.	Comparison of plasma jets generated by a Dielectric Barrier Discharge (DBD) and Discharge with Bare Electrodes (DBE) by double probe measurements / poster presentation code P-I-2-15	22nd International Symposium on Plasma Chemistry (ISPC), Antwerp, Belgium, 5-10 July 2015	Ionita E. R., Bazavan M., Teodorescu M., Dinescu G.
381.	Innovative atmospheric pressure plasma jet for copper particles synthesis / proceeding	22nd International Symposium on Plasma Chemistry (ISPC), Antwerp, Belgium, 5-10 July 2015 http://www.ispc-conference.org/ispcproc/ispc22/P-II-7-5.pdf	Lazea-Stoyanova A., Teodorescu V. S., G.Dinescu
382.	Innovative atmospheric pressure plasma jet for copper particles synthesis / poster presentation code P-II-7-5	22nd International Symposium on Plasma Chemistry (ISPC), Antwerp, Belgium, 5-10 July 2015	Lazea-Stoyanova A., Teodorescu V. S., G.Dinescu
383.	Surface recombination of oxygen atoms on carbon nanowalls / proceeding	22nd International Symposium on Plasma Chemistry (ISPC), Antwerp, Belgium, 5-10 July 2015 http://www.ispc-conference.org/ispcproc/ispc22/P-I-1-11.pdf	Mozetic M., Vesel A., Zaplotnik R., Stoica S.D., Vizireanu S., Dinescu G.
384.	Surface recombination of oxygen atoms on carbon nanowalls / poster presentation code P-I-1-11	22nd International Symposium on Plasma Chemistry (ISPC), Antwerp, Belgium, 5-10 July 2015	Mozetic M., Vesel A., Zaplotnik R., Stoica S.D., Vizireanu S., Dinescu G.
385.	Properties of tungsten nanoparticles deposited by a cluster source. Influence of discharge power / poster presentation code #98	20th International Colloquium on Plasma Processes, Saint-Etienne, France 1-5 June 2015	Acsente T., Negrea R., Nistor L.C., Birjega R., Matei E., Grisolia C., Dinescu G.
386.	Tailoring the properties of copper particles obtained by atmospheric pressure plasma jet / poster presentation code #130	20th International Colloquium on Plasma Processes, Saint-Etienne, France 1-5 June 2015	Lazea-Stoyanova A., Teodorescu V. S., Dinescu G.
387.	Hybrid PVD/PECVD synthesis of Cu-polysiloxane nanocomposites / poster presentation code 1050	8th International Conference on Advanced Materials (ROCAM), Bucharest, Romania, 7-10 July 2015	B. Mitu, S. Somacescu, L. C. Nistor, V. Ion, V. Satulu, G. Dinescu
388.	Atmospheric pressure plasma	8th International Conference on	Marascu V.,



	synthesis and characterization of Aluminium particles / poster presentation code 853	Advanced Materials (ROCAM), Bucharest, Romania, 7-10 July 2015	Lazea-Stoyanova A., Barna V., Chitescu I., Dinescu G.
389.	Application of image recognition algorithms for statistical description of nano- and microstructured surfaces / poster presentation code 15-PP62	9th International Physics Conference of the Balkan Physical Union, Istanbul, Turkey, 24-27 August 2015	Marascu V., Chitescu I., Barna V., Ionita M. D., Lazea-Stoyanova A., Mitu B., Dinescu G.
390.	Characterization of hydrogenated and deuterated silicon carbide films codeposited by magnetron sputtering / poster presentation PA-35	22nd International Conference on Ion Beam Analysis (IBA 2015), Opatija, Croatia, 14-19 June 2015	Pantelica D., Ionescu P., Petrascu H., Dracea M. D., Statescu M., Matei E., Rasoga O., Stancu C., Marascu V., Ion V., Acseente T., Dinescu G.
391.	Surface Engineered Carbon Nanowalls with Improved Biological Cells Activity / poster presentation code W-P-36	Spring Meeting European Materials Research Society (EMRS), Lille, France, 11-15 May 2015	Vizireanu S., Stancu C., Ion R., Campean A., Stoica S. D., Ionita M. D., Luculescu C., Dinescu G.
392.	Investigations by means of shadowgraphy of a filamentary atmospheric plasma jet / poster presentation	International Workshop and School on "Solar system plasma turbulence, intermittency and multifractals" (STORM 2015), Mamaia, Romania, 6-13 September 2015	Teodorescu M., Ionita E. R., Dinescu G.
393.	Properties of track membranes with polymer layer obtained by plasma polymerization method/proceeding	Proceeding paper of the International Conference "Ion Transport in Organic and Inorganic Membranes" 25-30 May 2015; Krasnodar, Russia; Pag. 151-153.	Kravets, L; Lizunov, N; Satulu, V; Mitu, B; Dinescu, G
394.	Properties of track membranes with polymer layer obtained by plasma polymerization method/poster presentation	Proceeding paper of the International Conference "Ion Transport in Organic and Inorganic Membranes" 25-30 May 2015; Krasnodar, Russia	Kravets, L; Lizunov, N; Satulu, V; Mitu, B; Dinescu, G
395.	Modification of track membranes by plasma for creation of nanofluidic diodes / proceeding	National Conference "Applied aspects of high energy chemistry"; 20-22 October, 2015; Moscow, Russia; 6 pages	Kravets, LI; Lizunov, N; Gilman, AB; Yablokov, MYu; Satulu, V; Mitu, B; Dinescu, G
396.	Modification of track membranes by plasma for creation of nanofluidic diodes / poster presentation	National Conference "Applied aspects of high energy chemistry"; 20-22 October, 2015; Moscow, Russia	Kravets, LI; Lizunov, N; Gilman, AB; Yablokov, MYu; Satulu, V; Mitu, B;



			Dinescu, G
397.	Formation of smart membranes by the method of plasma polymerization/ proceeding	Proceeding paper of the X International Conference "Vacuum Equipment, Materials and Technology"; 14-16, April 2015; Moscow, Sokolniki Culture & Exhibition Centre, Russia; P. 233-237.	Kravets, LI; Gilman, AB; Yablokov, MYu; Satulu, V; Mitu, B; Dinescu, G
398.	Formation of smart membranes by the method of plasma polymerization/ poster presentation	X International Conference "Vacuum Equipment, Materials and Technology"; 14-16, April 2015; Moscow, Sokolniki Culture & Exhibition Centre, Russia	Kravets, LI; Gilman, AB; Yablokov, MYu; Satulu, V; Mitu, B; Dinescu, G
399.	A novel technique for fabrication of 'diode-like' polymer membranes/ poster presentation	10th International Frumkin Symposium on Electrochemistry; 20-23 October 2015, Moscow, Russia	Kravets, LI; Gilman, AB; Yablokov, MYu; Satulu, V; Mitu, B; Dinescu, G
400.	A novel technique for fabrication of nanofluidic devices with polymer film formed by plasma/ proceeding	Proceeding paper of the VIII International Conference "Plasma Physics and Plasma Technology"; 14-18 September 2015, Minsk, Belarus	Kravets, L.I; Gilman, A.B; Yablokov, M.Yu; Satulu, V; Mitu, B; Dinescu, G
401.	A novel technique for fabrication of nanofluidic devices with polymer film formed by plasma/ poster presentation	VIII International Conference "Plasma Physics and Plasma Technology"; 14-18 September 2015, Minsk, Belarus	Kravets, L.I; Gilman, A.B; Yablokov, M.Yu; Satulu, V; Mitu, B; Dinescu, G
402.	Comparative study of antibacterial activity of solid materials using an antibiogram assay	E-MRS, 11-15 May 2015 - Franta	C. Surdu-Bob, D. Turcu, M. Badulescu, C. Coman,
403.	Selective bacterial invasion of bone - Evidence of inter-bacterial communication	EUROBIOTECH, Facultatea de Agronomie, Bucuresti	Coman C ; Surdu-Bob CS; Tiseanu I; Turcu D; Vlase E; Badulescu M; Gonciarov M;
404.	Radiological Assessment of an Experimental Model of Human Osteomyelitis in Rabbits	International Conference "Agriculture for Life, Life for Agriculture, 2015 Bucuresti, Romania;	Coman C; Surdu-Bob CS; Gonciarov M; Vlase E; Badulescu M;
405.	AFM and RBS investigations of 14K gold alloy thin layers deposited by thermionic vacuum arc plasma	9th International Physics Conference of the Balkan Physical Union -BPU9, 24-27 august 2015, Istanbul University, Istanbul, Turkey	Ionescu C; Craciun L.S; Anghel A; Badulescu M; Burducea I; Surdu Bob C;
406.	Anodization process analysis of the aluminum surfaces in corona discharge/poster	32nd ICPIG, July 26-31, 2015, Iași, Romania	A. Groza, A.Surmeian, C.Diplasu, C.Luculescu B.Mihalcea, M.Ganciu



407.	A New Mass Spectrometry Analytical Method Assisted by Laser Desorption	32nd ICPIG, July 26-31, 2015, Iași, Romania	A. Surmeian, C. Diplasu, A. Groza, B. Mihalcea, M. Ganciu
408.	Plasma Crystals of Charged Microparticles confined under Standard Temperature and Pressure (STP) conditions	32nd ICPIG, July 26-31, 2015, Iași, Romania	B. Mihalcea, O. Stoican, V. S. Filinov, D. S. Lapitsky, A. Groza, A. Surmeian, C. Diplasu, V. E. Fortov, M. Ganciu
409.	D2+He plasma influence on Be-W mixed films prepared by TVA technology/prezentare orală	1st EURATOM-FUSION Unit Days Meeting, Institute of Atomic Physics, Bucharest, Romania/14 May 2015/	I. Jepu, R. P. Doerner, M. J. Baldwin, D. Nishijima, R. P. Seraydarian, C. Porosnicu, C. P. Lungu, P. Dinca
410.	ITER related mixed reference coatings preparation and characterization/ prezentare orală	1st EURATOM-FUSION Unit Days Meeting, Institute of Atomic Physics, Bucharest, Romania/14 May 2015/	C.P.Lungu, C. Porosnicu, C. Costin, E. Grigore, C. Ruset, V. Tiron, O. Vasilovici, I. Jepu, P. Dinca, O. Pompilian
411.	Plasma plume analysis and the effect of terawatt laser system irradiation on C, W layers/ poster	32nd ICPIG, July 26-31, 2015, Iasi, Romania	C. P. Lungu, C. M. Ticos, C. Porosnicu, I. Jepu, M. Lungu, P. Dinca, O. Pompilian, B. Butoi, D. Ursescu, R. Banici, G. Cojocar, R. Ungureanu, C. Luculescu, A. Marcu, A. Marin, P. Osiceanu, I. Feraru, C. Grigorescu
412.	LASER INDUCED TRIBOLOGICAL MODIFICATIONS OF COMPOSITE LAYERS OBTAINED BY TVA / prezentare orală	15th International Balkan Workshop on Applied Physics and Materials Science/ 2-4 July, Constanta, Romania	C. POROSNICU, I. JEP, C. P. LUNGU, M. LUNGU, P. DINCA, O. POMPILIAN, I. TISEANU
413.	D2+He plasma influence on Be-W mixed films prepared by TVA technology /poster	15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC 2015) 18-22 May, Aix en Provence, France / A154 P-16	I. Jepu, R. P. Doerner, M. J. Baldwin, D. Nishijima, R. P. Seraydarian, C. Porosnicu, C. P. Lungu, P. Dinca
414.	Stress studies of beryllium deuterium mixed layers obtained by TVA / poster	15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC 2015) 18-22 May, Aix en Provence, France /A235 P-90	C. Porosnicu, C. Lungu, I. Jepu, C. Luculescu, P. Dinca, B. Butoi, O. G. Pompilian, A. Vladescu, D. Patroi,



			M. Lungu, L. Avotina, G. de Temmerman, R. Pitts
415.	Raman microscopy investigation of beryllium materials / poster	15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC 2015) 18-22 May, Aix en Provence, France / A033 P-24	C Pardanaud, M I Rusu, G Giacometti, C Martin, Y Addab, P Roubin, C P Lungu, C Porosnicu, I Jepu, P Dinca, M Lungu, O G Pompilian, R Mateus, E Alves, M. Oberkofler, M. Köppen, T. Dittmar, Ch. Linsmeier, M Rubel
416.	Beryllium Limiters from JET-ILW: Sectioning Techniques and Detailed Analysis/ poster	15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC 2015) 18-22 May, Aix en Provence, France / A040 P-31	C. P. Lungu,*, C. Porosnicu, I. Jepu, P. Dinca, O. G. Pompilian, M. Lungu, I. Tiseanu, P. Coad, M. Rubel, C. Ayres, J. Likonen, J. Linke, P. Petersson, G.
417.	Antimicrobial testing of the ValmGreen modeule developed for sustainable enhancing of wellbeing and comfort in indoor buildings / prezentare orală	CSA 2015 JOINT INTERNATIONAL CONFERENCE 22-25 Oct 2015, Iasi, Romania - Conference proceeding	C. Porosnicu, B. Butoi, P. Dinca, I. Jepu, C. P. Lungu, M. Diaconu, G. Soreanu, I. Cretescu
418.	INVESTIGATION ON THE PROPERTIES OF SOME N DOPED SiC NANOSTRUCTURED THIN FILMS / invited lecture	15th International Balkan Workshop on Applied Physics and Materials Science/ 2-4 July, Constanta, Romania	Victor Ciupina, Cristian P. Lungu, Rodica Vladoiu, Gabriel C. Prodan, Stefan Antohe, Corneliu Porosnicu, Iuliana Stanescu, Ionut Jepu, Sorina Iftimie, Marius Belc, Aurelia Mandes, Virginia Dinca, Eugeniu Vasile, Valeriu Zarovski, Virginia Nicolescu
419.	TERNARY COMPOSITE FILMS INTERACTION WITH HIGH POWER LASER BEAM / invited lecture	15th International Balkan Workshop on Applied Physics and Materials Science/ 2-4 July, Constanta, Romania	C. Lungu
420.	HiPIMS technique used for fusion related mixed materials / poster	32nd ICPIG, July 26-31, 2015, Iasi, Romania	V. Tiron, I-L. Velicu, O. Vasilovici, M. Dobromir, C. Costin, G. Popa C.



			Porosnicu, I. Jepu, P. Dinca, C. P. Lungu, M. Straticiuc, I. Burducea
421.	Electro-optical response in liquid crystal cells obtained in DC polymerization reactor / poster	32nd ICPIG, July 26-31, 2015, Iasi, Romania	Bogdan BUTOI, P. Dinca, R. Berezovski, C. Porosnicu, O. G. Pompilian, I. Jepu, E. Barna
422.	Characterization of TVA deposited Ag/Cu thin film with antibacterial proprieties for use in Smart Ventilation Systems / poster	EPS 2015 Lisbon, Portugalia, 22-26 iunie 2015	C. Porosnicu, B. Butoi, I. Cretescu, M. Diaconu, P. Dinca, I. Jepu, O. G. Pompilian, M. Lungu, C.P. Lungu
423.	Rotating dust rods in the plasma sheath between two equilibrium states / prezentare orală	Diagnostics and simulation of dusty plasmas, 4th International Workshop, Kiel, Germany, September 9 - 11, 2015,	N. Banu, C.M. Ticos
424.	Mars dust removal tehniue using coaxial plasma gun/ poster	Diagnostics and simulation of dusty plasmas, 4th International Workshop, Kiel, Germany, September 9 - 11, 2015,	A. Scurtu, C.M. Ticos, N. Banu, D. Toader, M.L. Mitu.
425.	Electron acceleration in gas jet at the CETAL Petawatt Laser Facility/ poster	ELI_NP Summer School, Magurele-Bucharest, Sept 21-25, 2015.	C. M. Ticoș, G. Giubega, T. Georgescu, M. Ganciu, C. Diplasu, B. Mihalcea, M. Serbanescu, I. Dancuș, L. Neagu, A. Marcu, I. Nicolae, R. Ungureanu, G. Cojocaru, O. Budriga, L. Mitu, A. Groza, D. Ticoș, I. Ionita, M. Bulinski
426.	Nano structures produce at the interaction of energetic plasma with surfaces/ prezentare orală	International Workshop on Advances in Nanophysics and Nanophotonics Aug 31-Sept 2, 2015, Magurele, Bucharest	C.M. Ticos, C. Luculescu, A. Scurtu, D. Ticos, M. Galatanu, A. Galatanu, C.P. Lungu, C. Porosnicu, I. Jepu, G. Cojocaru, G. R. Ungureanu
427.	Surface modification and heating of fusion compatible materials exposed to a few Mev electron beam and plasma jet/ prezentare orală	1st EURATOM-FUSION Research Unit Days Meeting, 14th May, 2015, Institute of Atomic Physics, Bucharest, Romania	C.M. Ticos, M. Galatanu, C. Luculescu, M. Oane, N. Iacob, D. Ticos, A. Scurtu, N. Banu



428.	Electron acceleration in gas jet at the CETAL Petawatt Laser Facility / poster	42nd European Physical Society Conference on Plasma Physics, Lisbon, Portugal, 22-26 June 2015	C. M. Ticoș, G. Giubega, T. Georgescu, M. Ganciu, C. Diplasu, B. Mihalcea, M. Serbanescu, I. Dancuș, L. Neagu, A. Marcu, I. Nicolae, R. Ungureanu, G. Cojocaru, O. Budriga, L. Mitu, A. Groza, D. Ticoș, I. Ionita, M. Bulinski
429.	Efficiency of Martian dust simulatant removal from surfaces in vacuum with pulsed plasma jet/ poster	42nd European Physical Society Conference on Plasma Physics, Lisbon, Portugal, 22-26 June 2015	A. Scurtu, D. Ticos, N. Banu, C. M. Ticoș,
430.	Influenta iradierii cu laseri de putere mare (TW) a filmelor din wolfram, beriliu si carbon / poster	A 14-a editie a Seminarului National de Nanostiinta si Nanotehnologie, Bucharest, Romania, 26 martie 2015	C. P. Lungu, C. M. Ticos, C. Porosnicu, I. Jepu, M. Lungu, P. Dinca, O. Pompilian, D. Ursescu, R. Banici, G. Cojocaru, R. Ungureanu, C. Luculescu, A. Marcu, A. Marin, I. Feraru, C. Grigorescu,
431.	Technology for manipulation and removal of dust for Mars missions / prezentare orală	Romanian Space Week, 27-29 May 2015, Bucharest, Romania	C.M. Ticos
432.	Composite materials based on natural fibres and rubber / prezentare orală	International Conference TexTeh VIIth, Bucuresti, 22-23 octombrie, 2015	Stelescu M.D., Manaila E., Craciun G., Luculescu C., Alexandrescu L., Gurau D.
433.	Wood sawdust/natural rubber ecomposites cross-linked by electron beam processing/ prezentare orală	International Symposium "The Environment and the industry", Bucuresti, 29-30 octombrie, 2015	Stelescu M.D., Craciun G., Manaila E., Alexandrescu L.
434.	Application of ionizing radiation for biopolymer degradation	The 15th International Balkan Workshop on Applied Physics, July 2 – 4, 2015, Constanta, Romania, p. 85	M. Brașoveanu, M.R. Nemțanu,
435.	The Bucharest PW at the CETAL Facility	5th CLPU Users Meeting, December 1-2, 2015, Salamanca, Spain	C.M. Ticos,



436.	Pump-and-Probe Experiments for Characterization of Laser Induced Periodical Surface Structures - Prezentare Poster	Light in Nanoscience and Nanotechnology (LNN 2015), 19-23 October 2015, Hissar, Bulgaria.	Marian ZAMFIRESCU, Laura IONEL, Catalina ALBU, Ioana DUMITRACHE, Sandel SIMION, Catalin LUCULESCU
437.	The laser, a versatile tool for manufacturing and characterizations - Prezentare orală	CONFERINȚA „LIGHTS OF THE WORLD”, BUCUREȘTI, 30 OCTOMBRIE – 1 NOIEMBRIE 2015	Marian ZAMFIRESCU
438.	Nanostructured surface-enhanced Raman scattering substrates obtained by low energy plasmas	ADVANCED TECHNOLOGIES AND METHODS FOR CHARACTERIZATION OF MULTIFUNCTIONAL THIN FILMS AND NANOSTRUCTURES, 21 – 22 July, 2015, Sofia, Bulgaria	Catalin Luculescu
439.	Single-Walled Carbon Nanotubes synthesis and processing	ADVANCED TECHNOLOGIES AND METHODS FOR CHARACTERIZATION OF MULTIFUNCTIONAL THIN FILMS AND NANOSTRUCTURES, 21 – 22 July, 2015, Sofia, Bulgaria	Catalin Luculescu
440.	Applications of 3D printing at nanoscale	ROMOPTO, September 1-4, 2015, Bucharest, Romania	Marian Zamfirescu, Florin Jipa, Catalin Luculescu
441.	Two targets off-axis laser ablation technique for pure materials synthesis	ROMOPTO, September 1-4, 2015, Bucharest, Romania	M. Badiceanu, E. Popovici, I. Morjan, C. Luculescu
442.	Surface-enhanced Raman scattering substrates obtained with ultrashort laser pulses	ROMOPTO, September 1-4, 2015, Bucharest, Romania	A. Bonciu, R. Ungureanu, M. Zamfirescu, C. Luculescu
443.	Laser cutting of small diameter holes in different metallic materials	ROMOPTO, September 1-4, 2015, Bucharest, Romania	G.D. Chioibas, C. Viespe
444.	MAPLE GRADIENT DEPOSITION OF HYDROXYAPATITE-BASED BIOCOMPATIBLE FILMS FOR TISSUE ENGINEERING	THE 8th INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS, ROCAM 2015, 7-10 JULY 2015, BUCHAREST, ROMANIA	Anca Florina Bonciu, Catalin Romeo Luculescu, Ionut Tirca
445.	Polymeric nanostructures for cervical cancer treatment developed by laser-assisted processes	12th International Conference on Nanosciences & Nanotechnologies – NN15, Nanotechnology, 7 - 10 July 2015 Thessaloniki, Greece	Irina Alexandra Paun, Mona Mihailescu, Marian Zamfirescu, Roxana Cristina Popescu, Catalin Romeo Luculescu, Maria Dinescu, Roxana Radu, Oana Tatiana Nedelcu



446.	ZnO Nanostructure Alignment on Alumina Surface by Carbon Seeding	Materials 2015, June 16-20, 2015, Zakynthos, Greece.	A. Marcu, L. Trupina, T. Yanagida, C. P. Lungu and T. Kawai
447.	Nanoscale laser-based fabrication and holographic imaging of 3D engineered constructs for bone regeneration	E-MRS Spring Meeting 11-15 May 2015, Lille, France	M. Mihailescu, I.A. Paun, M. Zamfirescu, C. R. Luculescu, A. Acasandrei, M. Dinescu
448.	Laser-assisted nano/micro-fabrication of electrically responsive, biomimetic scaffolds for bone tissue regeneration	E-MRS Spring Meeting 11-15 May 2015, Lille, France	I.A. Paun, M. Zamfirescu, C.R. Luculescu, M. Mihailescu, A. M. Acasandrei, C.C. Mustaciosu and M. Dinescu
449.	Hydroxyapatite biocompatible dispersions for bone-tissue engineering	E-MRS Spring Meeting 11-15 May 2015, Lille, France	Eduard Gatin, Anca Florina Bonciu, Catalin Luculescu, Lidia Ciobanu, Iurie Roates, Andreea Didilescu, Ruxandra Sfeatcu, Veronica Bucur
450.	Nanostructured surface-enhanced Raman scattering substrates obtained by low energy plasmas	The First Conference of Romanian Electron Microscopy Society, 7-8 May, 2015, Bucharest, ROMANIA	A. F. Bonciu, C. R. Luculescu
451.	Scanning electron microscopy of antibacterial polymeric coatings	The First Conference of Romanian Electron Microscopy Society, 7-8 May, 2015, Bucharest, ROMANIA	A. F. Bonciu, I. Paun, C. R. Luculescu
452.	Laser Irradiation of Materials for Fusion Devices	LAMP 2015, Fukuoka, Japan, March 26-29, 2015	A.Marcu, M.Lungu, C.Porosnicu, L.Avotina, D.Ursescu, C.A.Grigorescu, C.P. Lungu, A.Marin, G.Kizane and S.Antohe
453.	Spectroscopic investigations on structural properties of irradiated carbon based divertor materials	31st Scientific conference of University of Latvia, Institute of Solid State Physics, Riga, Latvia, 24-26 February 2015	L.Avotina, E.Pajuste, M.Halitovs, G.Kizane, A.Marcu, M.Lungu, C.Porosnicu, C.E.A. Grigorescu, A.I.Georgiana, C.P.Lungu, S.Antohe



454.	Investigation of irradiated divertor materials with Raman spectroscopy	73rd Conference of University of Latvia, Riga, Latvia, 13th February, 2015	L.Avotina, G.Kizane, J.Lapins, D.Conka, A.Marcu, M.Lungu, C.E.A.Grigorescu, A.I.Georgiana, C.P.Lungu, S.Antohe
455.	Space applications of high-power lasers/lectie invitata	Lights of the World, Bucharest, 30th October - 1st November 2015, Palace of the Parliament	M. Ganciu
456.	Influence of high energy ionizing radiation on single mode optical fiber properties / poster	The third International Conference on Radiation and Applications in Various Fields of Research, Budva, Muntenegru, 8 - 12 iunie 2015	Badita, E; Stancu, E; Vancea, C; Scarlat, F; Calina, I; Scarisoreanu, A
457.	Long term stability of clinical linier accelerator performance. Z-score assesement for absorbed dose to water quantity / prezentare orală	Sesiunea Stiintifica Anuala a Facultatii de Fizica, Bucuresti, Romania, 19 iunie 2015	Badita, E S; Vancea, C; Calina, I; Stroe, D; Dumitrache, M; Stancu, E; Scarisoreanu, A; Scarlat, F
458.	Laser processing of graphene-based nanomaterials / prezentare orală	Sesiunea Stiintifica Anuala a Facultatii de Fizica, Bucuresti, Romania, 19 iunie 2015	Calina, I; Vancea, C; Ionita, I
459.	The effect of ionizing radiation. Calibration of dosimetric apparatus used in radiology / prezentare orală	Sesiunea Stiintifica Anuala a Facultatii de Fizica, Bucuresti, Romania, 19 iunie 2015	Dumitrache, M; Dumitrache, M; Stroe, D; Chilom, C; Vancea, C; Calina, I; Badita, E
460.	STARDOOR performance evaluation through bilateral comparisons / poster	The Fifth International Proficiency Testing Conference, Timisoara, Romania, 15-18 septembrie 2015	Stancu, E; Badita, E; Vancea, C; Calina, I; Scarisoreanu, A; Scarlat, F
461.	Laser -Driven Hadron Therapy Project / poster	The 15th International Conference on Accelerator and Large Experimental Control Systems, Melbourne, Australia, 17-23 octombrie 2015	Scarlat, F; Scarisoreanu, A; Verga, N; Scarlat FI



Anexa 8: Listă studii prospective și tehnologice, normative, proceduri, metodologii și planuri tehnice noi sau perfecționate, comandate sau utilizate de beneficiar



Anexa 9: Listă drepturi de autor protejate ORDA sau în sisteme similare legale

Crt.	Titlu	Publicația oficială	Inventatorii/Titularii
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