



NATIONAL INSTITUTE FOR LASERS, PLASMA AND RADIATION PHYSICS
ATOMIȘTILOR 409, PO Box MG-36, Magurele, Ilfov 077125, ROMANIA
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<http://www.inflpr.ro>

RAPORT ANUAL DE ACTIVITATE

AL

INSTITUTULUI NATIONAL DE CERCETARE-DEZVOLTARE

PENTRU FIZICA LASERILOR PLASMEI SI RADIATIEI

INCDFLPR

2014

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1. DATELE DE IDENTIFICARE ALE INSTITUTULUI

1.1. Denumirea

Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor Plasmei si Radiatiei

1.2. Actul de înființare cu modificările ulterioare

INFLPR a devenit institut national de cercetare-dezvoltare in anul 1996 prin HG 1310/1996 si reacreditat prin HG 1581/2004. Prin H.G. 1310/1996 s-a hotarat ca institutul sa aiba ca filiala cu personalitate juridica Institutul de Stiinte Spatiale-ISS.

1.3. Numărul de înregistrare în registrul potențialilor contractori

1877

1.4. Adresa

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

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

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2. SCURTA PREZENTARE A INSTITUTULUI

2.1 Istoric

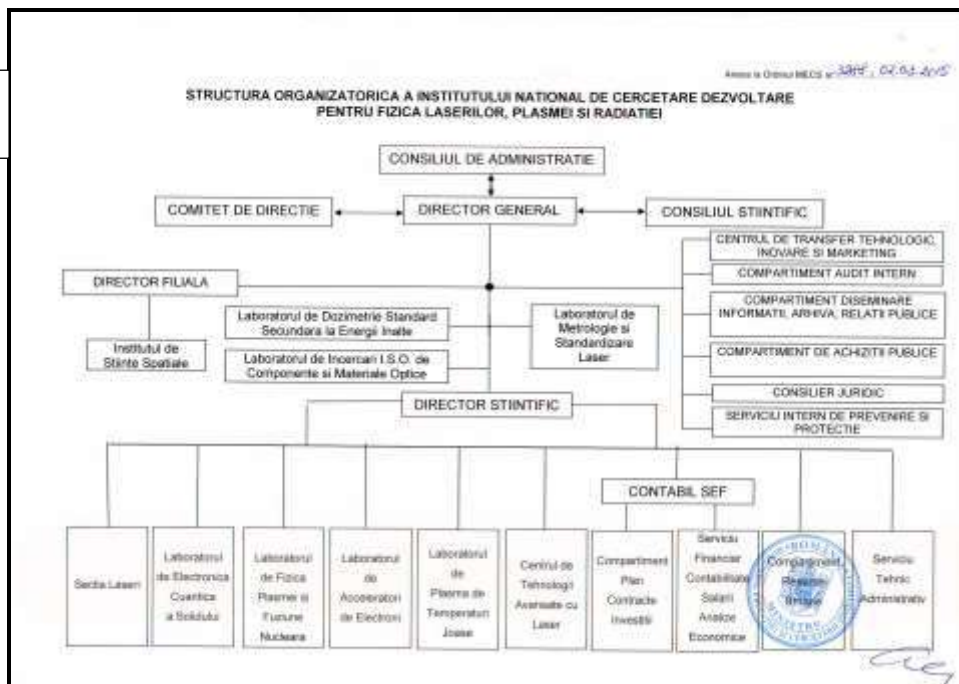
Institutul National de Fizica Laserilor, Plasmei si Radiatiei este un institut de cercetare de nivel national stabilit prin hotarare a Guvernului Romaniei in anul 1977.

Misiunea institutului consta in a conduce cercetari fundamentale si aplicative la nivel national si international in domeniile fotonicii, plasmei, acceleratoarelor de electroni. Institutul a fost reorganizat in 1996 cand Institutul de Stiinte Spatiale (ISS) a devenit filiala a INFLPR in conformitate cu Hotararea Guvernului Romaniei Nr. 1310/1996, ca unitate cu personalitate juridica, rezultat in urma reorganizarii si unificarii IFTAR si IGSS.

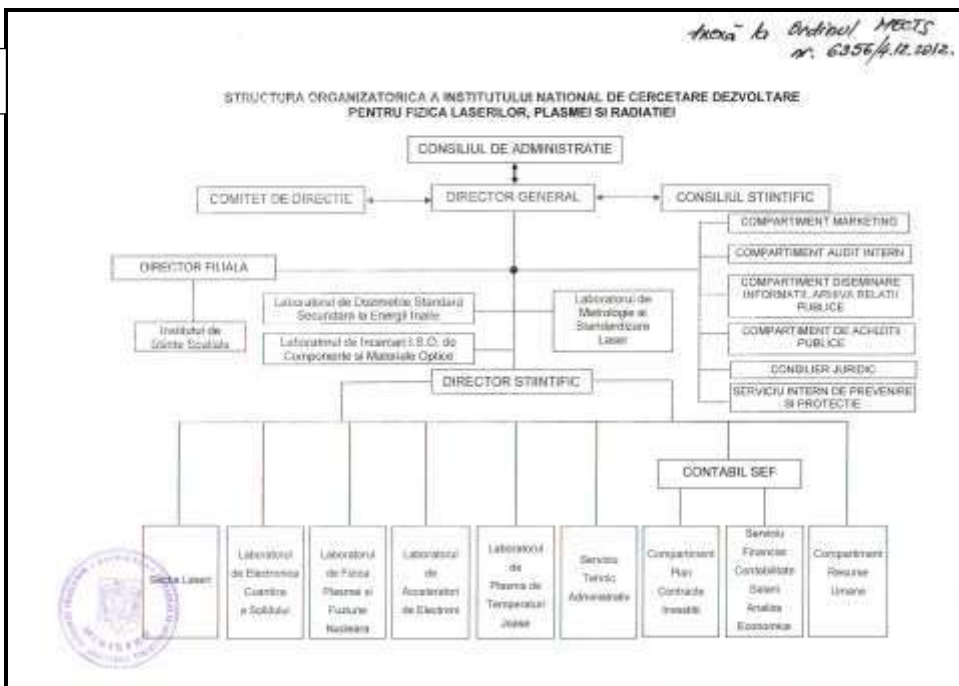
Continuand o traditie de peste 40 de ani in domeniul cercetarilor de fizica, Institutul National de Fizica Laserilor, Plasmei si Radiatiei (**INFLPR**) are ca obiect principal de activitate efectuarea de cercetari fundamentale, aplicative si dezvoltare tehnologica in domeniile: fizica laserilor, electronica cuantica a solidului, fizica plasmei, fizica fasciculelor de electroni precum si fizica spatiului cosmic.

2.2. Structura organizatorica a institutului

2015



2013



2.3. Domeniul de specializare al institutului (conform clasificării CAEN si UNESCO)

Conform clasificării **UNESCO**: 23

Conform clasificării **CAEN**: 7219

2.4. Direcții de cercetare-dezvoltare/obiective de cercetare/priorități de cercetare

a. domenii principale de cercetare-dezvoltare

Cercetare fundamentală

- ✓ Fizica laserilor: caracterizarea structurala, spectroscopica si compositionala a mediilor active laser, structuri optice nelineare, optica si informatie cuantica, pulsuri ultra scurte de mare intensitate, cristale fotonice si metamateriale.
- ✓ Fizica plasmelor: fizica plasmelor pulsate magnetizate, fizica arcului termoionic, fizica plasmelor reci la presiunea atmosferica, modelarea magnetohidro-dinamica a plasmelor, fizica fluidelor, fuziune termonucleara, stocare de particule încărcate, dinamica plasmelor tokamak.
- ✓ Fizica radiatiilor: fizica acceleratoarelor de electroni, fizica interactiunii particulelor incarcate cu tinte biologice, fizica radiatiilor X, fizica accelerarii particulelor in camp laser, fizica radiatiilor THz.
- ✓ Stiintele nano: nanofotonica, nanometrologie, puncte cuantice, fotochimie laser, fizica suprafetelor si plasmonica.
- ✓ Fizica spatiala: fizica radiatiilor cosmice, astrofizica nucleara si particule, plasma spatiala si magnetometrie, cosmologie, fizica si astrofizica teoretica, fizica matematica, gravitatie si microgravitatie

Cercetare aplicativă

- ✓ Tehnologii laser avansate: materiale biocompatibile, nanopicaturi pentru medicina, noi tipuri de materiale pentru celule solare, senzori produsi prin tehnici fotonice, micro-nanoprelucrari cu laser, nanometrologie.
- ✓ Cercetare aplicativa in plasmă fierbinti: Sisteme plasmă-catalitice pentru distrugerea poluantilor organici din aer si apa, aliere superficiala, tratamente termochimice in plasma.
- ✓ Aplicatii ale plasmelor de temperatura joasa: materiale nanostructurate si compozite, suprafete sterile in plasma, suprafete biocompatibile, functionalizarea suprafetelor pentru cultura celulelor, imobilizarea proteinelor, structuri quantum-well bazate pe DLC.
- ✓ Nanotehnologii: metamateriale, senzori SAW, fluide magnetice
- ✓ Radiatii si particule accelerate: Tomografia de transmisie de raze X pentru masuratori dimensionale, Micro-tomografie fluorescenta de raze X, iradiieri complexe dedicate aplicatiilor in medicina, biologie, conservarea si protectiei mediului;
- ✓ Sisteme avansate de comunicatii: tehnologii GRID, optimizarea transferului de date.

b. domenii secundare de cercetare

Dezvoltare tehnologică

- ✓ Realizare modele experimentale si prototipuri: detectori avansati de agenti chimici;
- ✓ Elaborare tehnologii: straturi de biosticle obtinute 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 in domeniul aparaturii spatiale
- ✓ Acreditare / notificare / autorizare / certificare laboratoare:
 - Acreditare/certificare metrologie laser: metrologia radiatiei optice coerente; metrologia radiatiei optice necoerente; metrologia sistemelor de comunicatii pe fibra optica; masurarea vibratiilor folosind sisteme laser;
 - Acreditare laborator masurare radiatii secundare STARDOOR
 - 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 si materiale prin iradiere cu electroni.
- ✓ Metrologie legală în domeniul fasciculelor laser.
- ✓ Microtomografie de raze X
- ✓ Pregătire si specializare în domeniul laseri, plasma.
- ✓ Design si executie aparate laser.

Microproductie

- ✓ Durificarea suprafetelor in plasma
- ✓ Tratamente de nitrurare ionica si PASK (Plasma AntiStiKing)
- ✓ Acoperiri speciale cu W si Be folosind tehnologii proprii pentru instalatiile de fuziune nucleara tokamak (JET – Joint European Torus), UK si ASDEX Upgrade, Germania

Alte servicii

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

2.5. Modificări strategice in organizarea si funcționarea institutuluiⁱ

Crearea CENTRULUI DE TEHNOLOGII AVANSATE CU LASER - **CETAL**

Crearea CENTRULUI DE TRANSFER TEHNOLOGIC INOVARE SI MARKETING-**CTTIM**

3. STRUCTURA DE CONDUCERE A INSTITUTULUI

3.1. Consiliul de administratie

1	Ion Morjan
2	Valentin Craciun
3	Traian Dascalu
4	Gheorghe Asanica
5	Constantin Ranea
6	Mioara Masariu
7	Georgeta Juganaru

3.2. Directorul general

Dr. Ing. Ion MORJAN

3.3. Consiliul științific

1	Valentin Craciun
2	Bogdana Mitu
3	Catalin Ticos
4	Traian Dascalu
5	Marian Zamfirescu
6	Ion Morjan
7	Adrian Petris

8	Angela Staicu
9	Gabriel Socol
10	Maria Dinescu
11	Stefan Amarande
12	George Dinescu
13	Florin Spineanu
14	Ion Tiseanu
15	Monica Magureanu
16	Monica Nemtanu
17	Sorin Zgura
18	Vlad Popa
19	Lucia Popa
20	Valentina Buica
21	Vlad Valeanu
22	Pavel Nicolaie
23	Georgescu Serban
24	Cristian Lungu
25	Ion Mihailescu

3.4. Comitetul director

1	Ion Morjan
2	Traian Dascalu
3	Ion Sorin Zgura
4	Valentin Craciun
5	Nicolaie Pavel
6	Ion Tiseanu
7	Catalin Ticos
8	Bogdana Mitu
9	Dan Sporea
10	Catalin Vancea
11	Mihaela Osman

4. SITUAȚIAⁱⁱ ECONOMICO-FINANCIARĂ A INSTITUTULUI

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

INFLPR

<u>SITUAȚIA PATRIMONIALĂ LA 31.12.2014</u>		
	2014	2013
Total activ patrimonial din care:	104.407.411,00	102.279.229,00
Imobilizări necorporale	422.237,00	422.237,00
Imobilizări corporale	93.859.062,00	91.200.290,00
Active circulante	10.126.112,00	10.656.702,00
Venituri aferente cifrei de afaceri totale din care:	49.921.237,00	64.387.361,00
Venituri contracte de cercetare-dezvoltare finanțate din fonduri publice	49.779.500,00	64.304.651,00
Venituri contracte de cercetare-dezvoltare finanțate din fonduri private	0,00	0,00
Venituri realizate din activități economice	141.737,00	82.710,00
Subvenții/transferuri	0,00	0,00

ISS

<u>SITUAȚIA PATRIMONIALĂ LA 31.12.2014</u>		
	2014	2013
Total Activ patrimonial din care:	12.148.769,00	12.963.289,00
Imobilizări necorporale	28.901,00	29.819,00
Imobilizări corporale	7.991.475,00	8.768.408,00
Active circulante	4.128.393,00	4.165.062,00
Venituri aferente cifrei de afaceri totale din care:	16.656.650,00	14.908.840,00
venituri contracte de cercetare-dezvoltare finanțate din fonduri publice	16.634.530,00	14.908.840,00
venituri contracte de cercetare-dezvoltare finanțate din fonduri private	0,00	0,00
venituri realizate din activități economice	22.120,00	0,00
subvenții/transferuri	0,00	0,00

4.2. Venituri totale, din care:

INFLPR

	Valoare (lei) 2014	Valoare (lei) 2013
Venituri totale din care:	49.919.640,60	64.383.490,09
Venituri realizate prin contracte de cercetare-dezvoltare naționale finanțate din fonduri publice	49.779.499,54	64.304.650,55

Venituri realizate prin contracte de cercetare-dezvoltare finantate din fonduri private	0	0
Venituri realizate din activitati economice (servicii, microproductie, exploatarea drepturilor de proprietatea intelectuala)	140.141,06	78.839,54

ISS

	Valoare (lei) 2014	Valoare (lei) 2013
Venituri totale din care:	16.656.650,00	14.908.840
Venituri realizate prin contracte de cercetare-dezvoltare nationale finantate din fonduri publice	16.634.530	14.908.840
Venituri realizate prin contracte de cercetare-dezvoltare finantate din fonduri private	0	0
Venituri realizate din activitati economice (servicii, microproductie, exploatarea drepturilor de proprietatea intelectuala)	22.120,00	0

Venituri totale INFLPR si ISS

	Valoare (lei) 2014	Valoare (lei) 2013
Venituri totale din care:	66.576.290,60	79.292.330,09
Venituri realizate prin contracte de cercetare-dezvoltare nationale finantate din fonduri publice	66.414.029,54	79.213.490,55
Venituri realizate prin contracte de cercetare-dezvoltare finantate din fonduri private	0	0
Venituri realizate din activitati economice (servicii, microproductie, exploatarea drepturilor de proprietatea intelectuala)	162.261,06	78.839,54

Veniturile realizate prin contracte de cercetare – dezvoltare nationale finantate din fonduri publice se repartizeaza pe surse nationale finantate de la bugetul de stat si pe surse internationale finantate din fonduri publice dupa cum urmeaza:

INFLPR

	Valoare (lei) 2014	Valoare (lei) 2013
Venituri realizate prin contracte de cercetare-dezvoltare nationale finantate din fonduri publice din care:	49.779.499,54	64.304.650,55
Venituri realizate prin contracte de cercetare-dezvoltare nationale finantate de la bugetul de stat	47.799.206,59	62.014.507,99
Venituri realizate prin contracte de cercetare-dezvoltare internationale finantate din fonduri publice	1.980.292,95	2.290.142,56

ISS

	Valoare (lei) 2014	Valoare (lei) 2013
Venituri realizate prin contracte de cercetare-dezvoltare nationale finantate din fonduri publice din care:	16.634.530	14.908.840
Venituri realizate prin contracte de cercetare-dezvoltare nationale finantate de la bugetul de stat	14.403.958,19	13.764.442,69
Venituri realizate prin contracte de cercetare-dezvoltare internationale finantate din fonduri publice	2.230.571,81	1.144.397,31

INFLPR SI ISS

	Valoare (lei) 2014	Valoare (lei) 2013
Venituri realizate prin contracte de cercetare-dezvoltare nationale finantate din fonduri publice din care:	66.414.029,54	79.213.490,55
Venituri realizate prin contracte de cercetare-dezvoltare nationale finantate de la bugetul de stat	62.203.164,78	75.778.950,68
Venituri realizate prin contracte de cercetare-dezvoltare internationale finantate din fonduri publice	4.210.864,76	3.434.539,87

EVOLUȚIA CIFREI DE AFACERI IN ANUL 2014 INFLPR

- lei -

Indicatorul	Exercițiul precedent	Exercițiul curent
1. Cifra de afaceri netă	64.387.361,00	49.921.237,00
2. Venituri din exploatare	71.895.485,00	60.712.456,00
3. Cheltuielile din exploatare	71.890.891,00	60.702.744,00
4. Rezultat din exploatare	4.594,00	9.712,00

An	Cifra afaceri
2013	64.387.361,00
2014	49.921.237,00

EVOLUȚIA CIFREI DE AFACERI IN ANUL 2014 ISS

- lei -

Indicatorul	Exercițiul precedent	Exercițiul curent
1. Cifra de afaceri netă	14.908.840,00	16.656.650,00
2. Venituri din exploatare	16.578.627,00	17.895.912,00
3. Cheltuielile din exploatare	16.578.005,00	17.873.792,00
4. Rezultat din exploatare	622,00	22.120,00

An	Cifra afaceri
2013	14.908.840,00
2014	16.656.650,00

4.3. Cheltuieli totale

	Valoare (lei) 2013	Valoare (lei) 2014
Cheltuieli totale INFLPR	71.903.835	60.716.382
Cheltuieli totale ISS	16.588.266	17.964.506

4.4. Profitul brut

	Valoare (lei) 2013	Valoare (lei) 2014
Profitul brut INFLPR	21.352	11.574
Profitul brut ISS	42.065	-44.619

4.5. Pierdere brută

Nu se înregistrează pierderi.

4.6. Situația arieratelor^{iv}

Instituția nu înregistrează arierate.

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

Având ca obiectiv principal optimizarea contuturii și utilizării resurselor economico-financiare, respectiv maximizarea valorii institutului, dezvoltarea durabilă și creșterea performanțelor, INFLPR și-a propus și a realizat:

- Creșterea și diversificarea activității 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 reanorie;
- Valorificarea rezultatelor cercetării și punerea acestora la dispoziția societății prin transfer tehnologic

4.8. Evoluția performanței economice

INFLPR

<i>Bonitate</i>	<i>Sume</i>	
	An 2014	An 2013
Total active Imobilizate	94.281.299,00	91.622.527,00
Total active circulante din care:	10.126.112,00	10.656.702,00
Stocuri	25.000,00	82.490,00
Disponibilități bănești	2.748.883,00	3.698.684,00
Creanțe	7.352.229,00	6.875.528,00
Total Capital:	92.822,00	92.822,00
Capital social subscris si vărsat	0,00	0,00
Patrimoniul institutelor cercet - dezvoltare	92.822,00	92.822,00
Cifra de afaceri din care:	49.921.237,00	64.387.361,00
Activități de cercetare - dezvoltare	49.779.500,00	64.304.651,00
Activități comerciale	141.737,00	82.710,00
Total venituri	60.727.956,00	71.925.187,00
Total cheltuieli	60.716.382,00	71.903.835,00
Rezultatul brut al exercițiului financiar	11.574,00	21.352,00
Indicatorul lichidității curente	1,20	1,14
Marja neta de profit (%)	0,01	0,02

ISS

<i>Bonitate</i>	<i>Sume</i>	
	An 2014	An 2013
Total active Imobilizate	8.020.376,00	8.798.227,00
Total active circulante din care:	4.128.393,00	4.165.062,00
Stocuri	338.034,00	713.574,00
Disponibilități bănești	3.150.981,00	3.030.628,00
Creanțe	639.378,00	420.860,00
Total Capital:	13.847,00	13.847,00
Capital social subscris si vărsat	0,00	0,00
Patrimoniul institutelor cercet - dezvoltare	13.847,00	13.847,00
Activități de cercetare - dezvoltare	16.634.530,00	14.908.840,00
Activități comerciale	22.120,00	
Total venituri	17.895.912,00	16.630.331,00
Total cheltuieli	17.873.792,00	16.588.266,00
Rezultatul brut al exercițiului financiar	22.120,00	42.065,00
Solvabilitatea patrimonială (%)	2,10	2,26
Lichiditatea generală (%)	0,82	0,78

5. STRUCTURA RESURSEI UMANE DE CERCETARE-DEZVOLTARE

5.1. Total personal din care:

a. personal de cercetare-dezvoltare atestat cu studii superioare^v 2013/2014

INFLPR: 331/348

ISS: 89/95

TOTAL: 420/443

b. număr conducători de doctorat 2013/2014

INFLPR: 9/9

ISS:0/0

TOTAL:9/9

c. număr de doctori 2013/2014

INFLPR: 223/230

ISS: 59/66

TOTAL: 282/290

d. structura personalului pe grade profesionale și categorii de vârstă 2013/2014

INFLPR

Total personal INFLPR	Total pers.cercetare dezvolt.cu studii sup.	Personal cercetare dezvoltare atestat cu studii superioare							Personal auxiliar
365	253	CSI	CSII	CSIII	CS	ASC	IDT	IDTI	112
		53	26	69	62	38	5	0	

2013 Situatia pe categorii de varsta

INFLPR

Personal cercetare-dezvoltare atestat cu studii superioare								Personal auxiliar	
Varsta (Interval ani)	CSI	CSII	CSIII	CS	ACS	IDT	IDTI	Varsta (Interval ani)	
>35	-	-	19	46	38	1	-	>35	10
35-50	12	11	40	16	2	4	-	35-50	41
50>	36	8	9	-	-	-	-	50>	60
Total	48	19	68	62	40	5	-	Total	111
Total cercetare-dezvoltare: 242								Total auxiliar : 111	
TOTAL PERSONAL INFLPR: 353									

2014 Situatia pe categorii de varsta

INFLPR

Personal cercetare-dezvoltare atestat cu studii superioare								Personal auxiliar	
Varsta	CSI	CSII	CSIII	CS	ACS	IDT	IDTI	Varsta (Interval ani)	

(Interval ani)									
<35	-	2	22	42	36	1		<35	6
35-50	15	13	39	20	2	4		35-50	42
50>	38	11	8	-	-	-		50>	64
Total	53	26	69	62	38	5		Total	112
Total cercetare-dezvoltare: 253								Total auxiliar : 112	
TOTAL PERSONAL INFLPR: 365									

ISS 2014

Total Personal ISS	Total pers.cercetare dez.cu studii superioare	Personal cercetare-dezvoltare atestat cu studii superioare							Personal auxiliar
		CSI	CSII	CSIII	CS	ACS	IDT	IDTI	
129	95	13	5	42	19	15	-	1	34

Personal cercetare-dezvoltare atestat cu studii superioare								Personal auxiliar	
Varsta (Interval ani)	CSI	CSII	CSIII	CS	ACS	IDT	IDTI	Varsta (Interval ani)	
>35	-	1	9	10	12	-		>35	7
35-50	3	2	30	9	3	-		35-50	15
50>	10	2	3	-	-	-	1	50>	12
Total	13	5	42	19	15	-	1	Total	34
Total cercetare-dezvoltare: 95								Total auxiliar 34	
TOTAL PERSONAL ISS: 129									

2013

Total Personal ISS	Total pers.cercetare dez.cu studii superioare	Personal cercetare-dezvoltare atestat cu studii superioare							Personal auxiliar
		CSI	CSII	CSIII	CS	ACS	IDT	IDTI	
121	89	10	3	41	19	15	-	1	32

Personal cercetare-dezvoltare atestat cu studii superioare								Personal auxiliar	
Varsta (Interval ani)	CSI	CSII	CSIII	CS	ACS	IDT	IDTI	Varsta (Interval ani)	
>35	-	-	17	11	11	-	-	>35	11
35-50	3	1	22	-	3	-	-	35-50	12
50>	7	2	2	8	1	-	1	50>	9
Total	10	3	41	19	15	-	1	Total	32
Total cercetare-dezvoltare: 89								Total auxiliar 32	
TOTAL PERSONAL ISS: 121									

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

În anul 2014 au participat la cursurile de perfecționare, în străinătate și în țară 41 de persoane: INFLPR -36.

INFLPR

Nr. Crt	Denumire curs	Tara/Oras	Nume si prenume Functia
1	Joint Training School on Particles at Liquid Interfaces-Fundamentals and Applications	Italia/Bonassola	Boni Mihai - CS
2	Joint Training School on Particles at Liquid Interfaces-Fundamentals and Applications	Italia/Bonassola	Nastasa Viorel – CS III
3	Participare la Scoala de vara „Lasers in Medicine and Life Sciences”.	Ungaria/Szeged	Mihailescu Ion – CS I
4	Participare la Scoala de vara „Lasers in Medicine and Life Sciences”.	Ungaria/Szeged	Ristoscu Carmen – CS I
5	Participare la Training School title: International Advanced Course in LIDESP.	Germania/Darmstadt	Boni Mihai - CS
6	Participare la Scoala „2014 Biophotonics Summer School”.	SUA/urbana,Illinois	Nastasa Viorel – CS III
7	Participare la Scoala „Introduction to Gaussian:Theory and Practice”.	Germania/ULM	Stoicu Alexandru - ACS
8	Training School on Radiation Therapy, Biology and Dosimetry.	Franta/Grenoble	Mihai Laura – CS
9	Summer School on Renewable Energy Systems&Green Nanotechnologies for a Clean Environment	Italia/Palermo	Goldner-Constantinescu Catalin – CS III
10	Scoala de vara NATO-ASI 2014.	Bulgaria/Sozopol	Hapenciuc Claudiu – CS
11	Training course Micronoptics Europe.	Elvetia/Morges	Stancalie Andrei - ACS
12	Participare la ELI SUMMER SCHOOL 2014.	Cehia/Praga	Banici Romeo – ACS
13	Participare la Scoala de vara.	Finlanda/Tempere	Ionescu Alina – CS
14	Participare la COST Training School.	Italia/Napoli	Alexandru Tatiana – ACS
15	Participare la scoala ISSON 14.	Grecia/Thessaloniki	Jipa Florin – CS
16	Participare la scoala ISSON 14.	Grecia/Thessaloniki	Zamfirescu Marian – CS I
17	Participare la scoala ISSON 14.	Grecia/Thessaloniki	Ionel Laura - CS
18	Participare la scoala de vara 12th IUUSTA.	Italia/Venetia	Dorcioman Gabriela – CS III
19	Participare la ELI SUMMER SCHOOL 2014.	Cehia/Praga	Cojocaru Gabriel - CS
20	Participare la ELI SUMMER SCHOOL 2014.	Cehia/Praga	Ungureanu Razvan – CS
21	Participare la scoala de vara.	Italia/Venetia	Dinescu Maria – CS I
22	Participare Scoala de vara in domeniul THz,infrarosu,undelor milimetrice.	Anglia/Leeds	Udrea Cristian - CS
23	Participare Scoala de vara in domeniul THz,infrarosu,undelor milimetrice.	Anglia/Leeds	Vasile Tiberius - CS
24	Participare Scoala de vara in domeniul THz,infrarosu,undelor milimetrice.	Anglia/Leeds	Mihai Laura - CS
25	Formare profesionala: Fellowship JSPS.	Japonia/Kochi	Craciun Valentin – CS I
26	Summer School on Mathematical Modelling of Complex Systems.	Japonia/Kochi	Croitoru Andreea - ACS

27	Summer School on Mathematical Modelling of Complex Systems.	Japonia/Kochi	Zubarev Alexei - ACS
28	Summer School on Mathematical Modelling of Complex Systems.	Bucuresti	Baran Virgil - ACS
29	Participare la Scoala de vara RESGNCE.	Italia/Palermo	Dumitru-Grivei Marius - CS
30	Participare la Scoala de vara RESGNCE.	Italia/Palermo	Niculescu Ana-Maria ACS
31	Participare la Scoala de vara RESGNCE.	Italia/Palermo	Rotaru Andrei – CS II
32	Participare la Scoala de vara POLYNANO.	Danemarca/Copenha ga	Stoicu Alexandru - ACS
33	Participare la Scoala de vara .	Elvetia/Leeds	Stancalie Andrei - ACS
34	Participare la Scoala de vara .	Elvetia/Chandolin	Stancalie Andrei - ACS
35	Participare la Scoala de vara .- IPP 2014.	Germania/Munchen	Lungu Mihail - ACS
36	Curs "Plasma Wake Acceleration".	Elvetia/Geneva	Giubega Giorgiana - ACS
37	Scoala CORSIKA	Germania	Isar Paula-Gina – CS II
38	Cursuri astronomice si fotometrie	Turcia	Dumitru Bogdan- Alexandru - ACS
39	Scoala de Vara" Space Missions for Geophysics of the Terrestrial Planets	Austria	Constantinescu Vlad Ion - CS
40	Scoala de Vara" Transparent Electronics	Grecia	Nistorescu Alexandru - CS
41	Curs de initiere in domeniul spatial	Italia	Radu Silvana - ACS

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Nr. crt.	Denumire curs	Țara	Nume și prenume/Funcția
1	„Școala CORSIKA”	Germania	Isar Paula Gina/CSII
2	„Cursuri astronomice și fotometrie”	Turcia	Dumitru Bogdan/ACS
3	Școala de Vară „Space Mission for Geophysics of the Terrestrial Plants	Austria	Constantinescu Vlad/CS
4	Școala de Vara "Transparent Electronics"	Grecia	Nistorescu Alexandru/CS
5	„Curs de inițiere în domeniul spațial”	Italia	Radu Silvana/ACS
6	Curs „SolidWorks Essential”	Romania	Marin Mihaela/CSIII Nistorescu Alexandru/CS

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

Politica INFLPR pentru dezvoltarea resurselor umane din domeniul cercetării-dezvoltării, cât și pentru dezvoltarea resurselor umane aferente întregii activități a institutului se bazează pe următoarele principii fundamentale:

1. Egalitatea in drepturi a tuturor angajaților INFLPR indiferent de gen si vârsta.
2. Angajarea, selecția și promovarea personalului pe criterii de excelență atât in structurile ierarhice științifice cat și în cele administrative.
3. Continua dezvoltare a capacității și eficienței resurselor umane la toate nivelurile prin intermediul activităților de perfecționare profesionala.
4. Încurajarea atât a inițiativei personale cât și a spiritului de echipa în vederea dezvoltării și îmbunătățirii calității și eficienței resurselor umane la toate nivelurile ierarhice științifice și administrative.

6. INFRASTRUCTURA DE CERCETARE-DEZVOLTARE, FACILITĂȚI DE CERCETARE

6.1. Laboratoare de cercetare-dezvoltare 2013/2014

Organigramele 2013 și 2014 pentru INFLPR sunt prezentate în secțiunea 2.2

6.2. Laboratoare de încercări acreditate/neacreditate 2013/2014: 3/3

6.3. Instalații și obiective speciale de interes național 2013/2014: 1/1.

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

- dezvoltarea de parteneriate la nivel național și internațional (cu personalități/ instituții / asociații profesionale) în vederea participării la programele naționale și europene specifice;
- Angajarea de personal specializat în managementul proiectelor;
- Inscrierea INCD în baze de date internaționale care promovează parteneriatele;
- Inscrierea INCD ca membru în rețele de cercetare/membru în asociații profesionale de prestigiu pe plan național/internațional;

7. REZULTATELE ACTIVITĂȚII DE CERCETARE-DEZVOLTARE

7.1. Structura rezultatelor de cercetare-dezvoltare

		INFLPR 2014/2013	ISS 2014/2013	INFLPR SI ISS 2014/2013
7.1.1	Lucrări ^{vi} științifice și tehnice în reviste de specialitate cotate ISI	220/248	99/84	319/332
7.1.2	Factor de impact cumulat al lucrărilor cotate ISI	464/425	420.052/324.8	884,052/749,8
7.1.3	Citări în reviste de specialitate cotate ISI	2251/1363	5035/1017	7286/2380
7.1.4	Brevete ^{vii} de invenție (solicitate/acordate)	6/13//10/11	1/0//2/1	7/13//12/12
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 ^{viii}	18/24	0/0/0//0/1 /0	0/0/18//24/1/0
7.1.7	Lucrări științifice/tehnice ^{ix} în reviste de specialitate fără cotație ISI	29/25	10/18	39/43
7.1.8	Comunicări științifice ^x prezentate la conferințe internaționale	406/401	33/45	439/446
7.1.9	Studii ^{xi} prospective și tehnologice, normative, proceduri, metodologii și planuri tehnice noi sau perfecționate, comandate sau utilizate de beneficiar	4/3	0/1	4/4
7.1.10	Drepturi de autor ^{xii} protejate ORDA sau în 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 cunoașterea activității desfășurate în institut permitând în acest fel crearea unor consorții științifice și tehnologice la nivel național și internațional. Astfel au fost castigate proiecte în cadrul Programului Național de Cercetare-Dezvoltare, precum și la nivel european prin proiecte Euratom, Laserlab, Horizon 2020, ESA

La nivel tehnologic, activitatea s-a concretizat prin satisfacerea unor necesități ce au venit de la companii private. Prin darea în folosință a CETAL cu facilitățile aferente, în perioada următoare se urmărește creșterea activității de valorificare a cercetării INFLPR atât prin proiecte naționale și internaționale, cât și prin servicii și parteneriate cu sistemul privat.

7.3. Oportunități de valorificare a rezultatelor de cercetare

- 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 are 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

Ca măsură de creștere a vizibilității, INFLPR a înființat un Centru de Transfer Tehnologic, autorizat provizoriu prin Ordinul nr. 600/23.10.2014 al Ministrului Delegat pentru învățământ superior, cercetare științifică și dezvoltare tehnologică - pe o perioadă de 12 luni, începând cu data aprobării ordinului.

Activitățile desfășurate în cadrul Centrului de Transfer Tehnologic au fost următoarele:

1. Participarea INFLPR cu stand propriu la Salonul Cercetării Românești organizat de MEN la Pavilionul expozițional al TIB (octombrie 2014).
2. Organizarea expoziției de produse și echipamente electro-optice cu caracter special ocazionată de inaugurarea oficială a obiectivului CETAL.
3. Organizarea pe Platforma Magurele a celei de a 28-a Reuniuni a experților European Defence Agency în domeniul EOST (electro-optics, laser și sensors technologies).
4. Invitarea și organizarea vizitei d-nei Dr. Ruxandra Draghia – Akli, directorul Directoratului “Health” din cadrul DG RTI al Comisiei Europene și a d-lui Dr. Didier Gambier, director de departament în cadrul Executive Agency of the European Commission for SMEs. În data de 27 octombrie cei doi oficiali ai Comisiei au susținut expuneri privind direcțiile de interes major ale cercetării științifice în domeniul Life Sciences, Energy și Environment prevăzute prin programul Horizons 2020, inclusiv prin dezvoltarea cooperării dintre INCD și IMM-uri. La sugestia INFLPR - CTTIM s-au desfășurat întâlniri de lucru între cei doi reprezentanți ai Comisiei și d-l Prof. Dr. Ing. Tudor Prisecaru, Secretar de Stat MEN pentru cercetare științifică și dezvoltare tehnologică și d-l Dr. Nicolae Banicioiu, Ministrul Sănătății.
5. În nr. 6 al revistei “Tehnică și tehnologie” a apărut în data de 8 decembrie 2014 un articol privind dotarea și facilitățile CETAL.
6. În perioada 12 -14.11.2014, directorul CTTIM a participat la Brussels la conferința privind strategia industriei UE în perioada 2014 – 2020, organizată de Comisie, Comitetul Economic și Social European și European Policy Center. Cu această ocazie a fost prezentat în fața participanților proiectul clusterului KET “CLARA” – care s-a bucurat de aprecieri.
7. S-a transmis spre publicare către LaserLab Europe un articol de prezentare a proiectului de cluster KET “CLARA”, care urmează să apară în primul număr.

8.1. Prezentarea activității de colaborare prin parteneriate

a) dezvoltarea de parteneriate la nivel național și internațional

Parteneriate internaționale

1. Bilateral programme: “Nanostructures for photonics”, INFLPR - Academy of Sciences of Moldova
2. Participant la acțiunea COST 1208: “Developing the Physics and the Scientific community for Inertial Confinement Fusion at the time of NIF ignition”
3. ANR-UEFISCDI «Innovative BIOMimetic nanostructured COATings for orthopaedic implants BY advanced pulsed LASER methods » - BIOCOAT_BY_LASER, 19_RO-FR/06.01.2014
4. M-ERA-NET- UEFISCDI 7-083/2014: „Straturi de carbon dopate cu Ag/Si pentru aplicații biomedicale” – CarLa
5. FP7-REGPOT-2012-2013-1 - 316309: INERA - Research and Innovation Capacity Strengthening of ISSP-BAS in Multifunctional Nanostructures;
6. Parteneriat IFA-CEA C3-03/2013, Efectul radiației asupra SiC: rolul raportului dintre dimensiunile graunților cristalini și a coliziunilor în cascada, Franța,

7. Bilateral 676/2013, Realizarea si caracterizarea straturilor dure de TiC, TiN si TiCN, Ungaria
8. Parteneriat M-ERA.NET 7-081/2013, Noi materiale vitroase boro-fosfatice dopate, sub forma de nanopulberi si filme subtiri nanostructurate, cu proprietati optice si magnetice inalte, pentru fotonica, Portugalia.
9. Parteneriat in cadrul EURATOM (ITM, AMNS).
10. Parteneriat in cadrul COST- Action MP1203 "Advanced X-ray spatial and temporal metrology".
11. Parteneriat in cadrul European Science Foundation : Project SILMI (Super Intense Laser-Matter Interactions).
12. Parteneriat in cadrul ADAS (Atomic Data and Analysis Structure)
13. Proiect Bilateral Romania-Franta, 7-RO-FR/2013, Laboratoare Hubert Curien LaHC, Saint Etienne, Franta.
14. Proiect bilateral Romania – Italia, intitulat" Laser beams interaction with micro-droplets having controlled content"; partener Italian IENI Genova.
15. Parteneriat in cadrul programului COST, Action MP1106 ("Smart and green interfaces: single bubbles/drops to industrial/environmental/biomedical applications"), 25 parteneri din UE si tari asociate; INFLPR este coordonator din partea romana.
16. Parteneriat in cadrul programului COST, Action MP1205 (Advances in Optofluidics: Integration of Optical Control and Photonics with Microfluidics), 27 parteneri din UE si tari asociate; INFLPR este coordonator din partea romana.
17. Parteneriat in cadrul programului COST, Action BM1003 (Microbial cell surface determinants of virulence as targets for new therapeutics in Cystic Fibrosis), 23 parteneri din UE si tari asociate; INFLPR este coordonator din partea romana.
18. Programul de cercetare Romania - Elvetia (RSRP) 18 RO-CH / 2013- "Materiale perovskitice nanostructurate cu banda interzisa ingusta pentru aplicatii fotovoltaiice si fotocatalitice de generare de hidrogen"- INFLPR este coordonator din partea romana
19. Cooperare internationala, Joint Research Project Romania-France, "Research and development of pure and Yb^{3+} - activated nonlinear optical borate type crystals for the realization of new compact and tunable high-power visible solid-state laser sources based on frequency conversion processes", Proiect 3 RO-FR / 03.01.2012; perioada 2012-2014.
20. Proiect Bilateral Romania - Republica Moldova, 2013-2014, "Emitatoare si receptoare matriciale de radiatie THz pentru circuite integrate hibride," intre Institutul National de Cercetare-Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei INFLPR din Bucuresti, Laboratorul de Electronica Cuantica a Solidului si Institutul de Inginerie Electronica si Nanotehnologii "D. GHIȚU", Str. Academiei, 3/3, MD-2028, Chisinau, Republica Moldova; perioada 2013-2014.
21. Parteneriat in cadrul COST-CM1006, "European F-Element Network," 2011-2015.
22. Parteneriat in cadrul COST-CM1104, "Reducible oxide chemistry, structure and functions," 2012-2016.
23. Parteneriat in cadrul COST-MP1204, "TERA - MIR Radiation: Materials, Generation, Detection and Applications," 2012-2016.
24. Parteneriate EUROfusion (27 tari UE, 29 laboratoare nationale) in cadrul Horizon 2020 (CCFE, Anglia; FZJ si IPP, Germania, VTT, Finlanda; CEA, Franta; ENEA, Italia;

- IPPLM Polonia; TARTU, Estonia, Consorzio RFX Italia, CIEMAT Spania). In 2014 INFLPR a participat la un numar de 8 pachete de lucru.
25. Parteneriat in cadrul programului COST, Action MP1001 (Ion Traps for Tomorrow's Applications - IOTA), 15 parteneri din UE si tari asociate; INFLPR este coordonator din partea romana.
26. Program de cooperare bilaterala CEA Franta, IFA Romania: doua proiecte:
- 1) Caracterizarea si modelarea 3D de inalta acuratete a cablurilor supraconductoare prin micro-tomografie si imbunatatirea modelelor multifizice, ale acestora;;
 - 2) Cresterea duratei de viata a placilor din CFC, grafit si CuCrZr acoperite cu W pentru utilizarea de lunga duratata interfata cu plasma de fuziune pentru proiectul WEST
27. Parteneriat in cadrul Eurofusion Consortium, proiect "Contributia consortiului EUROfusion la educatie prin cercetare de nivel predoctoral si doctoral in domeniul fuziunii nucleare"
28. Parteneriat in cadrul programului COST:
- action MP1101 "Biomedical applications of atmospheric plasma technology", 21 parteneri din UE, INFLPR este coordonator din partea romana
 - action TD1208 "Electrical discharges with liquids for future applications", 26 parteneri din UE, INFLPR este coordonator din partea romana
29. Bilateral Programme:
- acord bilateral intre INFLPR si IFA-CEA, Franta, proiect DUSCO (coordonat de sectia Laseri, INFLPR); Proiect "Mobilizarea si colectarea pulberilor cu laseri si plasma";
 - acord bilateral intre INFLPR si Joint institute for nuclear research (JINR), Dubna, Rusia; Proiect "Tratarea cu plasma a membranelor nucleare pentru aplicatii biomedicale si in nanotehnologie";
 - acord bilateral intre INFLPR si West Pomerania University of Technology (WPUT), Szczecin, Polonia,
30. Parteneriat cu EFDA-JET pentru paticiparea la proiecte EURATOM-FUZIUNE in cadrul FP7(CCFE, Anglia; IPP, Germania, VTT, Finlanda; CEA, Franta; TARTU, Estonia, ISJ Slovenia, IST Portugal, University of California in San Diego, UCSD USA)

Nr. crt.	Denumirea programului internațional	Țară și/sau CE unități colaboratoare	Denumire proiect
1	COST Action TD1001	24 țări UE/ China	Novel and Reliable Optical Fibre Sensor Systems for Future Security and Safety Applications (OFSeSa)
2	COST Action IC1101	22 țări UE/ Japonia, Australia, Taiwan, Coreea, Pakistan	Optical Wireless Communications - An Emerging Technology
3	COST Action TD1205	16 țări UE/ Armenia/ Australia, Canada	Innovative methods in radiotherapy and radiosurgery using synchrotron radiation
4	COST Action ES1309	24 țări UE	Innovative optical Tools for proximal sensing of ecophysiological processes (OPTIMISE)
5	COST Action FP1302	22 țări UE/ Japonia	WOOD MUSICK
6	FP7	9 țări UE/ 12 unități colaboratoare	CLS - Creative Little Scientists

7	LLL - Comenius	10 țări UE/ 12 unități colaboratoare	INSTEM - Inquiry Network for Science Technology Engineering Mathematics education
8	LLL – Comenius	10 țări UE/ 11 unități colaboratoare	SUSTAIN - Supporting science teaching advancement through inquiry
9	LLL – Erasmus+	4 țări UE/ 5 unități colaboratoare	CEYS - Creativity in Early Years Science Education

Parteneri internationali

1. Ellectra Sincroton Trieste, Hard X-ray Beamline and structure Biology, Italy
2. Institute of Chemical Physics, Universitate of Latvia, Riga, Letonia
3. IV. Physikalisches Institut, Georg-August-Universität Göttingen, Germany
4. University “La Sapienza” of Rome
5. Academy of Sciences of Moldova
6. Université Cergy-Pontoise, France
7. Institut de Sciences des Matériaux de Mulhouse, France
8. VetAgro Sup Campus vétérinaire de Lyon, France
9. Lodz University of Technology, Poland
10. Institute of Solid State Physics, BAS, Sofia
11. Institute of Electrochemistry and Energy Systems, BAS, Sofia
12. Institute of Electronics, BAS, Sofia
13. Institute of Physics in Prague
14. Institute of Fundamental Technological Research, Polish Academy of Sciences
15. Institute of Nuclear Sciences VINCA, Belgrade, Serbia
16. Institute of Physics, Serbian Academy of Sciences, Belgrade, Serbia
17. Tel Aviv University School of Mechanical Engineering & The Materials and Nanotechnologies Program, Israel
18. Department of Chemistry “G. Ciamician”, University of Bologna, Italy
19. Department Rizzoli RIT, Rizzoli Orthopedic Institute-IOR, Bologna, Italy
20. Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, Serbia
21. Faculty of Technology, University of Novi Sad, Novi Sad, Serbia
22. Department of Mechanical & Manufacturing Engineering, University of Cyprus
23. Institutul de Fizică Aplicată, Academia de Științe a Moldovei, Chisinau, Moldova
24. RIKEN – The Institute of Physical and Chemical Research, Japan
25. Commissariat à l’Energie Atomique, Laborator: DMN/SRMA-LA2M, LRC CARMEN
26. Institute for Technical Physics and Materials Science, Research Centre for Natural Sciences, HAS, Budapest- Ungaria
27. Universidade Nova de Lisboa, Institutul de Igienă și Medicină Tropicală, Lisboa, Portugalia.
28. Queen’s University of Belfast, UK
29. University Paris Sud, France
30. ADAS
31. IENI, Genova, Italia
32. Instituto Medico Vilafortuny, Tarragona, Barcelona, Spain,
33. Instituto Medico Laser Madrid, Spain, Spania,
34. UFR-ST Laboratoire Chrono-Environnement UMR CNRS 6249, Université de Franche-Comté, Besançon Cedex, France

35. Dip. di Chimica Organica e Biologica; Università di Napoli "Federico II"; Complesso Universitario Monte S. Angelo, Napoli, Italia.
36. Universitat de Barcelona, Spain
37. Technical University Darmstadt, Darmstadt, Germany.
38. Denmark Technical University, Copenhagen, Danemarca.
39. University of Illinois, Urbana-Champaign, USA.
40. Department of Physics, Koc University, Istanbul, Turkey.
41. PSI Elvetia
42. EPFL Elvetia
43. EMPA Elvetia
44. CNR-ISC Italia
45. CNR ISTEC Italia
46. Laboratoire de Chimie de la Matière Condensée de Paris - LCMCP de l'École Nationale Supérieure de Chimie de Paris (ENSCP) - Chimie ParisTech, Paris, France (Franta).
47. Institutul de Inginerie Electronica si Nanotehnologii "D. GHIȚU", Str. Academiei, 3/3, MD- 2028, Chisinau, Republica Moldova.
48. Fusion for Energy, Barcelona, (F4E)
49. Consorzio RFX Padova, Italia
50. Max-Planck Institute for Plasma Physics, Garching, Germania
51. Princeton Plasma Physics Laboratory, Princeton, SUA
52. CEA Cadarache, Franta
53. National Radioactive Waste Management Agency – ANDRA, Franta
54. Institute of Photonic Technology - IPHT Jena
55. Aston University - School of Engineering & Applied Science, Marea Britanie
56. University of Limerick – Optical Fibre Sensors Research Centre, Irlanda
57. University of Palermo – Department of Physics & Astronomy, Italia
58. iXFiber, Franta
59. ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) Frascati, Italia.
60. Ellinogermaniki Agogi (EA) – Grecia
61. Institute of Education, University of London, Marea Britanie
62. Open University, Londra, Marea Britanie
63. Bishop Grosseteste University College Lincoln, Marea Britanie
64. University of Eastern Finland
65. Artevelde University College, Belgia
66. Goethe University Frankfurt, Germania
67. University of Minho, Portugalia
68. Université de Picardie Jules Verne, Franta
69. University of Malta
70. Universitat Bonn, Germania
71. Bodmin College, Marea Britanie
72. Dublin City University, Irlanda
73. The Educational Research and Evaluation Group, Institute of Applied and Computonal and Mathematics, FORTH –Hellas, Grecia
74. Hacettepe University Turcia
75. Leopold-Franzens-Universität Innsbruck, Austria

76. Martin-Luther-Universität Halle, Germania
77. Norwegian University of Science and Technology, Norvegia
78. Pädagogische Hochschule Freiburg, Germania
79. Università di Napoli Federico II, Italia
80. University of Exeter, Marea Britanie
81. University of Liverpool, Marea Britanie
82. Walter Rathenau Gewerbeschule, Germania
83. Fundatia La main à la pâte, Paris, Franta – coordonatorul proiectului
84. Ecole des Mines de Nantes, Nantes, France
85. Freie Universität Berlin, Berlin, Germania
86. St Patrick's College, Drumcondra, Dublin, Ireland
87. ANISN - National Association of Natural Science Teachers, Neapole, Italia
88. Institutul National pentru Fizica Laserilor, Plasmei si Radiatiei, Magurele, Romania
89. Vinca Institute of Nuclear Sciences (University of Belgrade), Belgrad, Serbia
90. University of Trnava, Trnava, Slovacia
91. University of Ljubljana, Liubliana, Slovenia
92. University of Leicester, Leicester, Marea Britanie
93. Science Learning Centre, Pädagogische Hochschule Wien, Viena, Austria
94. Institute de Recherches sur la Fusion par confinement Magnetique (IRFM), CEA
Cadarache, Franta
95. Joint institute for nuclear research (JINR), Dubna, Rusia
96. Fraunhofer Institute for Interfacial Engineering and Biotechnology, Stuttgart,
Germania
97. INP, Greifswald, Germania
98. Laboratoire d'Analyse et d'Architecture des Systemes, LAAS-CNRS, Toulouse, Franta
99. INRS Energie, Varennes, Canada
100. West Pomerania University of Technology, Szczecin, Polonia
101. Jozef Stefan Institute, Ljubliana, Slovenia
102. IPP Garching-Germania;
103. VTT Finlanda,
104. JET-Culham-UK,
105. CEA-Franta, Marseille,
106. IST Portugal,
107. University of California in San Diego, UCSD USA
108. Ghent University, Research Unit Plasma Technology (RUPT), Ghent, Belgium
109. National Centre for Scientific Research Demokritos, Institute of Microelectronics,
Athens, Greece

Parteneriate interne: proiecte de cercetare dezvoltare

1. Institutul National de Cercetare – Dezvoltare pentru Fizica Materialelor, Magurele
2. Institutul National de Cercetare Dezvoltare Turbomotoare COMOTI;
3. INCAS : Institutul National de Cercetari Aerospatiale – Bucuresti
4. Universitatea Politehnica Bucuresti
5. Universitatea Bucuresti

6. Institutul Național de Cercetare-Dezvoltare pentru Electrochimie si Materie Condensată, Timisoara
7. S.C. ROM-QUARTZ S.A., Bucharest
8. Institutul National de Cercetare-Dezvoltare pentru Metale si Resurse Radioactive-I.C.P.M. R.R, Bucuresti
9. Cp Med Laboratory Srl, Bucuresti
10. S.C. Wing Computer Group S.R.L., Bucuresti
11. Institutul National de Cercetare-Dezvoltare pentru Stiinte Biologice/INCDSB, Bucuresti
12. Universitatea de Medicina si Farmacie "Carol Davila", Bucuresti.
13. Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara "HORIA HULUBEI",Bucuresti
14. SC CANBERRA PACKARD SRL,cu sediul in Bucuresti
15. Institutul National de Cercetare-Dezvoltare pentru Optoelectronică (INOE 2000),
16. Institutul de Biochimie al Academiei Romane, Bucuresti
17. Universitatea din Craiova
18. Institutul de Chimie Fizica "I. Murgulescu", Bucuresti
19. Spitalul Clinic "Bagdasar Arseni", Bucuresti
20. Facultatea de Biologie a Universitatii din Bucuresti
21. Institutul de Virusologie "S. Nicolau", Bucuresti
22. TEHNOMED S.A, Bucuresti
23. Adrem Invest
24. SITEX
25. Universitatea Bucuresti, Facultatea de Fizica
26. Essential Systems S.R.L
27. Universitatea Politehnica Bucuresti -Centrul de Cercetare pentru Optoelectronica
28. Universitatea Politehnica Bucuresti – Centrul de Cercetări pentru Informatia Spatială
29. UTI GRUP S.A
30. ITIM-Cluj
31. Institutul Național de Cercetare - Dezvoltare pentru Chimie si Petrochimie, Bucuresti (ICECHIM)
32. CHIMCOLOR SRL
33. Institutul "Ion Cantacuzino", Bucuresti
34. National Institute for Research and Development in Microtechnologies -IMT Bucharest
35. ProOptica
36. Optoelectronica S. A.
37. Institutul de Chimie Macromoleculara "Petru Poni" Iasi
38. Institutul de Biologie, Bucuresti
39. Renault Technologies Roumanie S.R.L., North Gate Business Center, Soseaua Pipera-Tunari, Bucuresti.
40. Institutul National de Cercetare – Dezvoltare Fizica Materialelor
41. Institutul de Fizica si Inginerie Nucleara - "Horia Hulubei", Bucuresti
42. Universitatea Tehnica Cluj-Napoca
43. ACCENT PRO 2000 SRL
44. Institutul National de Cercetare – Dezvoltare pentru Fizica Materialelor
45. Institutul National de Cercetare – Dezvoltare pentru Ecologie Industrială

46. Universitatea din Bucuresti, Facultatea de Fizica
47. Universitatea din Bucuresti, Facultatea de Chimie
48. Institutul de Fizica Atomica (IFA)
49. Universitatea Politehnica din Bucuresti, Facultatea de Chimie Aplicata si Stiinta Materialelor
50. SC UPS Pilot Arm SRL
51. Hofigal Export Import SA
52. ICA Research & Development SRL
53. Institutul National pentru Fizica si Inginerie Nucleara IFIN- HH
54. Administratia Nationala de Meteorologie
55. Advanced Studies and Research Center Bucuresti
56. SC Apellaser SRL
57. Universitatea tehnica „Gh. Asachi” din Iasi’
58. Universitatea Tehnica din Cluj-Napoca
59. SC Computerpower S.R.L
60. Institutul de Fizica Atomica
61. Institutul National de Cercetare Dezvoltare pentru Optoelectronica INOE
62. SC PM CONCEPT CONSULTING SRL
63. SIVECO Romania
64. MEDNET Marketing Research Center
65. Institutul National de Cercetare – Dezvoltare Fizica Materialelor
66. Institutul de Fizica si Inginerie Nucleara - "Horia Hulubei", Bucuresti
67. Facultatea de Fizica, Universitatea Bucuresti
68. Universitatea Politehnica din Bucuresti
69. Universitatea Politehnica Bucuresti - Centrul de Microscopie-Microanaliza si Procesarea Informatiei
70. Facultatea de Biologie si Centrul de cercetare, educatie si consultanta in Microbiologie, Genetica si Biotehnologie (MICROGEN), Universitatea Bucuresti
71. Institutul National de Cercetare Dezvoltare pentru Inginerie Electrica (ICPE-CA)
72. Universitatea Dunarea de Jos din Galati
73. Universitatea de Vest "Vasile Goldis"
74. R&D Consultanta si Servicii S.R.L.
75. Tehnomed Impex CO S.A.
76. Beia Consult International S.R.L.
77. Euroservice Net PMA S.R.L.
78. Institutul de Chimie Fizica "Ilie Murgulescu" al Academiei Romane
79. Facultatea de Chimie, Universitatea Bucuresti
80. Universitatea din Craiova
81. Institutul National de Optoelectronica 2000 (INOE 2000)
82. Universitatea “Alexandru Ioan Cuza”, Iasi,
83. Universitatea Tehnica “Gheorghe Asachi” Iasi,
84. Universitatea Ovidius din Constanta,
85. Fabrica de Combustibil Nuclear Pitesti (FCN)

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

- Membru in Consortiul ADAS (Atomic Data and Analysis Structure)
- Membru Facility for Antiproton and Ion Research(FAIR)- SPARC

- Membru in retelele 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
- - INFLPR este membru in COST TD 1208 Electrical discharges with liquids for future applications si COST MP 1101 Biomedical applications of atmospheric plasma technology",

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

Înscrierea INFLPR în rețeaua ReNITT a entităților naționale specializate în transferul de tehnologie si in protecția proprietății intelectuale rezultate în urma activităților de CDI.

d) participare în comisii de evaluare concursuri naționale/internaționale

1. Evaluare proiecte National Science Centre Polonia, ERC (Prof. Dr. Ion N. Mihailescu)
2. Dr. Eniko Gyorgy: Participare in comisii de evaluare de proiecte FP7, Bruxelles; Participare in comisii de evaluare de proiecte nationale, Polonia; Participare in comisii de evaluare de proiecte nationale, Spania; Participare in comisii de evaluare de proiecte nationale PCCA
3. Participarea in 2014 ca membru in 3 Comisii de Doctorat: la Facultatea de Fizica a Universitatii Bucuresti si la Universitatea Politehnica Bucuresti.
4. Dinescu Gheorghe: Reviewer proiecte de cercetare nationale pentru Italia, Belgia
5. Lazea-Stoyanova Andrada: Reviewer proiecte de cercetare Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO), Belgia

e) personalități științifice ce au vizitat institutul

1. Francois Kajzar, Université d'Angers, Institut des Sciences et Technologies Moléculaires d'Angers, France
2. Acad. Ion Tighineanu, Academy of Sciences of Moldova, Kishinev, Moldova
3. Prof George Popescu, University of Illinois at Urbana-Champaign, USA
4. Prof Ying Yin Tsui University of Alberta, Canada
5. Dr. Tara Desai, Research Reactor Section, Division of Nuclear Fuel Cycle and Waste Technology, Department of Nuclear Energy, IAEA, Vienna, Austria

6. Dr. Tsuneyuki Ozaki, Institut National de la Recherche Scientifique, Centre Énergie, Matériaux, Télécommunications, Montreal, Canada
7. Seminar INFLPR - 23/10/2014 - Dr. Gilles Chériaux, Laboratoire pour l'Utilisation des Lasers Intenses, Ecole Polytechnique, CNRS, 91120 Palaiseau, France.
8. Seminar INFLPR - 19/09/2014 - Prof. Gabriel Popescu, University of Illinois at Urbana-Champaign, USA.
9. Michele Ferrari, IENI, Genova, Italy
10. Maria Del Carmen Moran Badenas, Universitat de Barcelona, Spain.
11. Prof. Dr. Thomas Lippert- PSI Elvetia
12. Assoc. Prof. Dr. Takunori TAIRA, Laser Research Center, Institute for Molecular Science, Okazaki 444-8585, Japan; 30 iunie - 03 iulie 2014.
Seminar stiintific, 01 iulie 2014: "Giant Microphotonics: Challenges, Achievements, Future".
13. Prof. Dr. Gérard Aka, Dr. Pascal Loiseau, Chimie ParisTech, École Nationale Supérieure de Chimie de Paris, Institut de Recherche de Chimie de Paris, 11 rue Pierre et Marie Curie, 75231 Paris, cedex 05, France.
04 noiembrie 2014: Seminar intern privind rezultatele obtinute in cadrul proiectului 3 RO-FR / 03.01.2012, "Cercetarea si dezvoltarea de cristale optic nelineare de tip borat pure si activate cu ioni Yb^{3+} pentru realizarea de noi surse laser de mare putere cu emisie in vizibil, compacte si acordabile, bazate pe procese de conversie de frecventa".
14. Dr. Cristian Grisolia, IRFM, Cadarache, Franta
15. Dr. Lyubov Kravets, JINR, Dubna, Rusia
16. Dr. Ruxandara Draghia-Akli, Ph.D., directorul Directoratului "Health" din cadrul Comisiei Europene, 27 octombrie 2014.
17. Dr. Didier Gambier este una din personalitatile marcante din domeniul fizicii si ingineriei nucleare care activeaza in cadrul institutiilor Uniunii Europene (<http://be.linkedin.com/in/didiergambier>)
18. Vizita Premierului Romaniei domnul Victor Ponta la inaugurarea Centrului de Tehnologii Avansate cu Laseri (CETAL-INFLPR)
19. Vizita Președintelui Senatului României, domnul Călin Popescu-Tăriceanu.
20. Vizita insarcinailor cu afaceri ai SUA si Marii Britanii
21. Vizita Ambasadorului Frantei
22. Vizita Ambasadorului Germaniei
23. Vizita Ambasadorului Qatar, e.t.c.

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

1. Seminar INFLPR- 27 octombrie 2014 Dr. Ruxandara Draghia-Akli, Ph.D., directorul Directoratului "Health" din cadrul Comisiei Europene - DG Research & Development(http://ec.europa.eu/research/health/news-biography_en.html), expunere in fata cercetatorilor de pe Platforma privind directiile de interes major ale Comisiei pentru activitatile de cercetare - inovare in domeniul "Life Sciences", pe care-l coordoneaza in cadrul "Horizon 2020", referiri concrete la programele si directiile de cercetare prioritare in domeniul stiintelor vietii, beneficiare majore de finantare comunitara in perioada urmatoare.

2. Seminar INFLPR- 27 octombrie 2014 Dr. Didier Gambier, director de departament in cadrul EASME (European Comision Executive Agency for Small and Medium Enterprises), responsabil in cadrul agentiei pentru promovarea si implementarea programelor de

cercetare si inovare ale Comisiei destinate IMM-urilor ce activeaza in domeniul mediului, schimbarilor climatic, managementului resurselor si materialelor, precum si de implementarea programului LIFE si a componentei privind securitatea energetic si energia curate, cu focalizare pe eficienta energetica. Expunere privind oportunitatile de finantare de catre EASME a unor tematici de interes promovate in cooperare de INCD si IMM-uri.

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 in colectiv redactie	JOAM	Grigoriu Constantin
Membru in colectiv redactie	Optoe. And Adv. Mat. Rapid Comm.	Grigoriu Constantin
Member of the Editorial board	Journal of the European Optical Society (JEOS), London, U.K. (2006-present)	Valentin I. Vlad
Member of the Editorial board	SPIE Reviews, SUA (2008-present)	Valentin I. Vlad
Chief Editor	Proceedings of the Romanian Academy, Series A: Mathematics, Physics, Technical Sciences, Information Science and Technology	Valentin I. Vlad
Chief Editor	Romanian Reports in Physics	Valentin I. Vlad
Member of the Editorial board	Optoelectronics and Advanced Materials-Rapid Communications (OAM-RC)	Valentin I. Vlad
Member of the Editorial board	Romanian Reports in Physics	Adrian Petris
Membru al Advisory Board	Journal of Optoelectronics and Advanced Materials	Dan C. Dumitraș
Membru al Colegiului Editorial	"Buletin Științific" – Universitatea Politehnica București	Dan C. Dumitraș
International Board Member	Digest Journal of Nanomaterials and Biostructures	Ion N. Mihailescu
International Board Member	Opto-Electronics Review	Ion N. Mihailescu
International Board Member	Journal of Optoelectronics and Advanced Materials	Ion N. Mihailescu
International Board Member	Revue des Technologies Avancées	Ion N. Mihailescu
International Board Member	Chalcogenide Letters	Ion N. Mihailescu
Editorial board Member	Chemical Sensors	Ion N. Mihailescu
Editorial board Member	ISRN (International Scholarly Research Network) Spectroscopy	Ion N. Mihailescu
Editorial Board member	World Journal of Condensed Matter Physics (WJCM)	Carmen Ristoscu
Editor	Journal of Nano Research	V Craciun
Guest editor	Applied Surface Science	V Craciun
Membru Editorial Board	Photomedicine and Laser Surgery	Mihail-Lucian Pascu
Membru Editorial Board	Lasers in Medical Science	Mihail-Lucian Pascu
Membru Editorial Advisory Board	Letters in Drug Design & Discovery - LDDD	Mihail-Lucian Pascu

Membru in colectiv redactie	Applied Surface Science	Maria Dinescu
Membru al Editorial Board	Romanian Journal of Physics	LUPEI Voicu
Membru in colectiv redactie Guest Editor	Thin Solid Films, Volume 553, Pages 1-192 (28 February 2014) European Materials Research Society (E-MRS) Spring Meeting 2013 Symposium O: "Synthesis, processing and characterization of nanoscale multi functional oxide films IV"	Zoe H. Barber, Maryline Guilloux-Viry, Magdalena Nistor , Nadhira Laidani
Membru al Advisory Board	Plasma Processes and Polymers	Dinescu Gheorghe

8.2. Prezentarea rezultatelor la târgurile și expozițiile naționale și internaționale

a) târguri și expoziții naționale

1. Noaptea Cercetatorului, 27 septembrie 2014, Bucuresti, Romania.
2. Salonul Cercetarii Romanesti, Inventika 2014, Targul international Bucuresti, 15-18 octombrie 2014, participare cu stand propriu, Bucuresti, Romania.
3. Organizarea expozitiei de produse si echipamente electro-optice cu caracter special ocazionata de inaugurarea oficiala a obiectivului CETAL, 21 octombrie 2014, Magurele, Romania.
4. Organizarea pe Platforma Magurele a celei de a 28-a Reuniuni a expertilor European Defence Agency in domeniul EOST (electro-optics, laser si sensors technologies), cu participarea expertilor ai celor mai importante companii si institute europene din domeniul aplicatiilor optronicii in domeniul apararii si securitatii MBDA, Thales Selex, Airbus, SAAB, CILAS, Fraunhofer, Karl Zeiss Optronics etc.), precum si reprezentanti ai ministerelor apararii din tarile UE si Norvegia, 21 octombrie 2014, Magurele, Romania.

b) târguri și expoziții internaționale

1. Participarea INFLPR cu sprijinul MEN la **Expozitia Realizarilor de Varf ale Cercetarii Romanesti**, competitia SOLAR DECATHLON EUROPE 2014, iulie 2014, Versailles, Franta.

8.3. Premii obținute prin proces de selecție/distincții

INFLPR

Premiu	Autoritatea care l-a acordat	Autorii
Cea mai buna prezentare-Locul II	International Student Conference on Photonics (ISCP 2014)	Tozar (Alexandru) Tatiana
Cel mai bun poster-Locul III	International Student Conference on Photonics (ISCP 2014)	Tozar (Alexandru) Tatiana
Cea mai buna prezentare-Locul III	International Student Conference on Photonics (ISCP 2014)	Mihai Boni
Cea mai buna prezentare-Locul I	International Student Conference on Photonics (ISCP 2014)	Agota Simon
Cea mai buna prezentare-Locul III	International Student Conference on Photonics (ISCP 2014)	Alexandru Stoicu
Cel mai bun poster	„Smart and Green Interfaces Conference” and 5 th International Conference „Heat Transfer and Fluid Flow in Microscale” Marseille, France, 22-24 April, 2014	Andra Dinache

Cea mai buna prezentare-Locul II	International Student Conference on Photonics (ISCP 2014)	Gabriela Salamu
Cea mai buna prezentare-Locul III	International Student Conference on Photonics (ISCP 2014)	Anita Visan
Cel mai bun poster-Locul II	International Student Conference on Photonics (ISCP 2014)	Adrian Scurtu
Cel mai bun poster-Locul III	International Student Conference on Photonics (ISCP 2014)	Gabriela Salamu
Best Oral Presentation - Second Place	SPIE - Student Chapter Prezentarea orala: "Laser emission from diode-pumped Nd:YAG waveguide lasers realized by femtosecond-writing technique," 5th International Student Conference on Photonics, Orastie, Romania, 23-26 September 2014; presentation O.02.	G. Salamu, F. Jipa, M. Zamfirescu, F. Voicu, and N. Pavel
Best Poster Award - Third Place	SPIE - Student Chapter Prezentarea poster: "Efficient laser emission from a disordered Yb:CLNGG crystal," 5th International Student Conference on Photonics, Orastie, Romania, 23-26 September 2014; presentation P.07.	G. Salamu, F. Voicu, A. Achim, L. Gheorghe, N. Pavel, and T. Dascalu

Premii nationale si internationale

INFLPR

Premiu	Autoritatea care l-a acordat	Autorii
Diploma de Excelenta si Medalia de Argint pentru brevetul „Instalatie automatizata de sudare cu fascicul laser a capsulelor radioactive pentru medicina nucleara si procedeu de utilizare”	Salonul International de Inventica PRO INVENT editia a XII-a, 2014 Cluj-Napoca, Romania	I. Voiculescu, V. Geanta, R. Stefanescu, G. Iacobescu, C. Grigoriu, I. Nicolae, D. Dragulinescu, C. Viespe, C. Sima, V. Fugaru, E. S. Manea, D. D. Daisa
Diploma de participare la Salonul Cercetarii Romanesti, Inventika 2014, Targul international Bucuresti, 15-18 octombrie 2014, Romania.		INFLPR
Diploma de Excelenta la ``Expozitia Realizarilor de Varf ale Cercetarii Romanesti`, iulie 2014, Versailles, Franta.	MEN si SOLAR DECATHLON EUROPE	INFLPR

ISS

Crt.	Premiu	Autoritatea care l-a acordat	Autorii
1	Premiu in cadrul competiției “Premierea Rezultatelor Cercetării - Tip Articol” pentru articolul: High precision framework for chaos many-body engine	UEFISCDI	I.V. Grossu, C. Besliu, D. Felea, Al. Jipa

2	Premierea rezultatelor cercetării	UEFISCDI	Nishikawa, K.-I.; Hardee, P. E.; Dutan, I.; Niemiec, J.; Medvedev, M.; Mizuno, Y.; Meli, A.; Sol, H.; Zhang, B.; Pohl, M.; Hartmann, D. H.
3	Best presentation Award	Alpbach Summer School Committee	Barragan, J.; Barta, V.; Burtz; L-J; Constantinescu, V.; Jimenez, M. F.; Frasl, B.; Gurciullo, A.; Hofmeister, S.; Oliveira, M.; Orgel, C.; Ostojic, K.; Sejkora, N.; Sorensen-Clark, P.M.; van Zelst, I.
4	Competitiveness Award	Alpbach Summer School Committee	Barragan, J.; Barta, V.; Burtz; L-J; Constantinescu, V.; Jimenez, M. F.; Frasl, B.; Gurciullo, A.; Hofmeister, S.; Oliveira, M.; Orgel, C.; Ostojic, K.; Sejkora, N.; Sorensen-Clark, P.M.; van Zelst, I.

8.4. Prezentarea activității de mediatizare

a) extrase din presa

1. Aparitia in presa scrisa a mai multor articole referitoare la ``Inaugurarea celui mai mare laser din Europa-Centrul de Tehnologii avansate cu Laseri (CETAL)``, 21-22 octombrie 2014.
2. Aparitia a unui articol privind dotarea si facilitatile INFLPR-Centrul de Tehnologii Avansate cu Laser (CETAL), nr. 6 din data de 8 decembrie 2014, Revista ``Tehnica si Tehnologie.

b) participare la dezbateri radiodifuzate/televizate

- TV:**
1. Emisiuni de promovare a INFLPR, la TVR 2, TVRi, TVR HD și TVR INFO, Ion Morjan Director General INFLPR , 2014.
 2. ProTV, Antena 3, Realitatea TV, 21 octombrie 2014, ``Inaugurarea celui mai mare laser din Europa-Centrul de Tehnologii avansate cu Laseri (CETAL)``.
 3. TVR, interviu Telegiurnal, 25 octombrie 2014, promovare INFLPR-CETAL, Constantin Grigoriu, director de proiect CETAL.
- Radio:**
1. Emisiuni de promovare a INFLPR, ELI-NP la Radio Cultural, Actualitati, etc, Ion Morjan Director General INFLPR ,2014.

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

Acces la baze de date internationale ISI Thompson, SCOPUS, programul national ANELIS, Biblioteca Nationala de Fizica, numeroase carti si reviste de specialitate

10. CONCLUZII

În anul 2013 Institutul de Fizica Laserilor Plasmei și Radiației 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 parteneriatele internaționale mari în care suntem implicați.

Realizarea a **220** lucrări științifice/tehnice în reviste de specialitate cotate ISI având un factor de impact cumulat de peste **464** puncte, acumularea unui număr de peste **2251** citări (fără autocitări) în fluxul internațional principal al revistelor ISI precum și solicitarea în 2014 a **13** brevete, acordarea în 2013 a **6** brevete de invenție naționale, arată că institutul are o poziție bine stabilită în sistemul național de cercetare și, prin rezultatele obținute, se apropie de performanța la nivel internațional.

Colaborarea științifică la nivel internațional este foarte bună, peste **130** parteneri internaționali, și acest fapt trebuie valorificat urmărindu-se creșterea procentului de finanțare internațională din bugetul institutului.

O analiză detaliată a rezultatelor obținute de către echipele de cercetare releva mari diferențe între colectivele de cercetare în privința numărului de lucrări valoroase, patente, tehnici și tehnologii. În cazul domeniilor mai puțin dinamice se impune reconversia cercetătorilor valoroși către domeniile de foarte mare interes deschise de investiția CETAL. Finalizarea proiectului CETAL (investiție de 17 milioane euro) va avea un impact major asupra cercetării din România și va propulsa institutul în rândul institutelor de elită la nivel european.

INFLPR s-a implicat cu hotărâre, și în anul 2014, în realizarea infrastructurii de cercetare ELI pentru laserul de 2 x 10PW, prin furnizarea de expertiză tehnică și personal de cercetare.

11. PERSPECTIVE/PRIORITĂȚI PENTRU PERIOADA URMĂTOARE DE RAPORTARE¹

INFLPR, prin natura 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 a INFLPR pe următorii ani își propune 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 AUDIT²

A se vedea Anexa 10.

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

În cursul anului 2014 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

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

Dr.Luculescu Catalin – Președinte Sindicat Radiția INFLPR

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

Sedința din data de 30.01.2014:

- Prezentarea Raportului Consiliului de Administrație și a Raportului anual al INFLPR pe anul 2013;
- Aprobarea programului de ședințe al Consiliului de Administrație INFLPR pe anul 2014;
- Prezentarea Planului de investiții INFLPR 2014.
- Diverse.

Sedința din data de 13.02.2014:

- Prezentarea Bugetului de venituri și Cheltuieli INFLPR 2014;
- Informare privind proiectul CETAL;
- Diverse.

Sedința din data de 31.03.2014:

- Prezentarea Raportului anual INFLPR 2013;
- Diverse.

Sedința din data de 29.04.2014:

- Prezentarea Bilantului Financiar Contabil INFLPR si ISS la 31.12.2013;
 - Informare privind stadiul proiectului CETAL;
 - Validarea rezultatelor concursului de promovare in functiile de Cercetator Stiintific grad I si Cercetator Stiintific grad II;
 - Informare cu privire la solicitarea Sindicatului Radiatia de incepere a negocierilor pentru noul CCM la nivel INFLPR;
 - Diverse.
- Sedinta din data de 30.05.2014:**
- Informare stadiu proiect CETAL;
 - Aprobarea diminuarii liniei de credit de la BCR;
 - Diverse.
- Sedinta din data de 27.06.2014;**
- Informare privind activitatea comisiei de monitorizare a sistemului de control intern managerial la nivelul INFLPR;
 - Diverse.
- Sedinta din data de 31.07.2014:**
- Prezentarea Situatiilor financiare INFLPR la 30.06.2014;
 - Prezentarea propunerii de modificare a Regulamentelor de concurs pentru ocuparea functiilor de Cercetator Stiintific grad I, Cercetator Stiintific grad II si Cercetator Stiintific grad III;
 - Diverse.
- Sedinta din data de 10.09.2014:**
- Prezentarea proiectului de CCM la nivel INFLPR 2014;
 - Prezentarea Raportului Analiza de Cost INFLPR;
 - Diverse.
- Sedinta din data de 29.09.2014:**
- Prezentarea propunerii de proiect Center of Excellence in Laser and Radiations - CLARA;
 - Diverse.
- Sedinta din data de 16.10.2014:**
- Prezentarea Bugetului de Venituri si Cheltuieli Rectificat pe anul 2014;
 - Diverse.
- Sedinta din data de 27.11.2014:**
- Prezentarea propunerii de modificare a Organigramei INFLPR;
 - Propunere privind organizarea concursului pentru ocuparea functiei de Director Stiintific, Director Filiala si Sef Sectie/Laborator in cadrul INFLPR;
 - Prezentarea Regulamentelor de concurs pentru ocuparea functiilor de Cercetator Stiintific si Asistent Cercetare.
 - Diverse.
- Sedinta din data de 18.12.2014:**
- Prezentarea Planului de Sedinte al Consiliului de administratie INFLPR pe anul 2015;

- Prezentarea Regulamentului de concurs pentru ocuparea functiei de Cercetator stiintific grad III;
- Prezentarea propunerii Consiliului Stiintific privind numarul de posturi scoase la concurs pentru functiile: Asistent cercetare, Cercetator stiintific si cercetor stiintific grad III;
- Diverse.

Membrii Consiliului de Administratie al Institutului National de Cercetare-Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei au discutat si analizat, in primul rand, problemele economico-financiare ale institutului, dispunand in acest sens masuri privind:

- aprobarea Bugetului de venituri si cheltuieli al INFLPR pentru anul 2014;
- aprobarea Bilantului contabil al INFLPR pe anul 2013;
- raportul de gestiune al INFLPR;
- situatia economico-financiara a INFLPR;
- aprobarea Bilantului contabil al INFLPR incheiat la data de 30.06.2014;
- aprobarea Bugetului de Venituri si Cheltuieli rectificat al INFLPR pe anul 2014.

O alta contributie importanta a Consiliului de Administratie a constituit-o analiza si aprobarea masurilor referitoare la buna functionare a institutului, in conformitate cu prevederile legale in vigoare.

Astfel, Consiliului de Administratie a discutat si aprobat in cursul anului 2014 urmatoarele:

- raportul de activitate al Consiliului de Administratie al INFLPR pentru anul 2013;
- prezentarea propunerilor de proiecte ;
- regulamente de concurs;
- raportul anual INFLPR – 2013;
- diverse

Tot in acest sens, membrii Consiliului de Administratie al Institutului National de Cercetare-Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei au discutat, analizat si propus masuri privind solutionarea problemelor curente ale institutului: modul de administrare al spatiilor detinute de institut; modul de realizare, respectiv finalizare a investitiilor, etc.

De asemenea, trebuie mentionata buna colaborare a membrilor Consiliului de Administratie al Institutului National de Cercetare-Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei cu reprezentantul Sindicatului Radiatia din cadrul institutului, concretizata prin dispunerea masurilor necesare pentru solutionarea problemelor ridicate.

Avand in vedere aspectele sus mentionate, se poate concluziona faptul ca in cursul anului 2014, Consiliul de Administratie al Institutului National de Cercetare-Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei si-a indeplinit in mod corespunzator atributiile stabilite prin Regulamentul de Organizare si Functionare aprobat prin HG. Nr 1581/2004.

Anexa 2:CONTRACTE
INFLPR+ISS

Nr. Crt.	Numar contract	Denumire contract	Valoare contract	Sursa de finantare
1	Poz 10 si 11 HG	Instalatii de Interes National	969,068.21	Buget de stat
2	39N	LAPLAS NUCLEU	19,743,197 .00	Buget de stat
3	71/2011	Light triggering of drug carrier systems for targeted delivery and controlled release	182,500.00	Buget de stat
4	13/2011	Current challenges in modeling the generation of hard radiations by relativistic interactions between very intense laser beams and electrons or atoms	23,756.00	Buget de stat
5	63/2011	Novel laser ablation-assisted technique for pure single- walled carbon nanotube synthesis	200,000.00	Buget de stat
6	80/2011	Novel approach to nanoscale multi-functional materials, to reduce toxics and bacteria and to manage resources more effeciently	175,000.00	Buget de stat
7	209/2011	Functionalized flavonoid_ biopolymer nanostructured composites processed for antibacterial activity	189,354.00	Buget de stat
8	41/2011	Transdermal patch developed by laser based methods for hypertensive heart disease	148,350.00	Buget de stat
10	43/2011	Antimicrobial and degradable biohybrid substrates with controlled surface architecture combining localized bio activation with antifouling properties	178,750.00	Buget de stat
11	31/2011	Growth and modeling of distributed Bragg reflectors for quantum microcavities	171,600.00	Buget de stat
12	12/2011	Novel hybrid metal-organic and polymeric thin film materials for sensor development	167,000.00	Buget de stat
13	50/2011	Trace gas detection in life sciences by laser photoacoustic methods	94,000.00	Buget de stat
18	parteneriat 107/2012	Platforma senzitiva bogata pe interactii bionimetice pentru detectia rapida a contaminatilor din alimente	115,193.00	Buget de stat
19	parteneriat ctr. 186/2012	Noi materiale vitroase magneto-optice cu aplicatii in optoelectronica	115,500.00	Buget de stat
20	parteneriat ctr.153/2012	Fabricarea de implanturi ortopedice osteoinductive cu structura ierarhica 3D graduala	126,000.00	Buget de stat
21	parteneriat ctr.3/2012	Bio-nanofotonica pe baza de structuri supramoleculare de AND pentru functionalitati complet optice integrate	237,805.00	Buget de stat
22	parteneriat ctr. 1/2012	Ultrafast laser Facility with Optimized high order harmonics UltraViolet sources	136,106.00	Buget de stat
23	partenriat ctr.137/2012	Filme nanocompozite hibride (inorganice-organice) pe baza de hidroxizi dublu stratificati (LDH) cu suprafete hidrofobice si/sau cu rol de acoperiri protective	172,375.00	Buget de stat

24	partenariat ctr.17/2012	Nanostructuri bazate pe noi compusi organometalici pentru aplicatii in electronica	140,000.00	Buget de stat
25	parteneriat ctr. 6/2012	Structuri tridimensionale stimulate electric pentru ingineria tesuturilor	170,625.00	Buget de stat
26	parteneriat ctr. 184/2012	Sistem de imaginistica optica multimodala pentru detectia intraoperativa a marginilor pozitive a tumorilor	168,000.00	Buget de stat
27	parteneriat ctr. 162/2012	Complex high surface area photoactive nano-materials for environmentally- friendly energy production and organic pollutants degradation	103,400.00	Buget de stat
28	parteneriat ctr. 146/2012	Scriere directa cu laserul a materialelor compozite polimeri-grafene	171,500.00	Buget de stat
29	parteneriat ctr.7/2012	"Nanostructuri feromagnetice/antiferomagnetice complexe cu proprietati magnetice imbunatatite pentru aplicatii in stocarea de date obtinute prin depunera laser secventiala (FANLAS)	252,000.00	Buget de stat
30	parteneriat ctr.138/2012	"Straturi YBa2Cu3O7 groase cu parametri imbunatatiti pentru acoperiri supraconductoare"	112,000.00	Buget de stat
31	parteneriat ctr.85/2012	"Modelarea si simularea activitatii pompelor de eflux bacteriene prin metode laser avansate"	280,000.00	Buget de stat
34	Idei 304	"Nano-senzori multiparametrici de oxizi metalici obtinuti prin tehnologii avansate"	236,875.00	Buget de stat
35	Idei 337	"Studiul proprietatilor filmelor subtiri de Zrc pt.aplicatii in acoperirea combustibilului nuclear"	215,625.00	Buget de stat
39	Grant 1/RNP	"Studiul interactiunii radiatiei laser intensa cu atomi si plasma"	67,500.00	Buget de stat
40	TE 82	"Nanostructurarea,asamblarea si imobilizarea biomaterialelor cu laseri pulsati"	191,350.00	Buget de stat
41	proiect STAR 17/2012	"Imagistica Compresiva in domeniul THz si Spectroscopie Hadamard pentru Aplicatii Spatiale"	285,000.00	Buget de stat
42	proiect star IMT 34/2012	"Bolometre pentru aplicatii spatiale si infrarosii mediu si indepartat"	64,800.00	Buget de stat
43	Proiect STAR 33/2012	"Dezvoltarea si integrarea unui pachet de programe pentru accesul la baze de date de foarte mare dimensiune si aplicarea lui in analiza de date"	150,000.00	Buget de stat
44	contract 676/2013	"Realizarea si caracterizarea straturilor dure de TiC , TiN si TiCN"	3,713.49	Buget de stat
45	contract 693/2013	"Nanostructuri biomimetice sintetizate prin tehnologii laser avansate pentru o noua generatie de implanturi : studii experimentale si modelare teoretica"	10,424.75	Buget de stat
46	contract 597/2013	"Suprafete biofunctionale nanostructurate prin tehnologii de scriere laser directa"	7,118.76	Buget de stat
47	contract 641/2013	"Interactia fasciculelor laser cu micropicaturi care au un continut bine determinat"	5,726.60	Buget de stat
48	contract 709/2013	"Analiza spectrala a periodicitatilor din structura epigenomului"	7,827.75	Buget de stat
49	7RO-FR/2013	"Dinamica de formare a nanostructurilor de suprafata induse cu laserul DYLISS"	354,900.00	Buget de stat

50	Idei 33/2013	"Investigarea mecanismelor de formare a nanostructurilor in experimente cu rezolutie temporala ultrainalta"	323,964.00	Buget de stat
51	PD 15/2011	"Retentia de metale grele in filmele subtiri de hidrotalciti (LDH) obtinute prin ablatie laser(PLD)"	111,000.00	Buget de stat
52	18 RO -Ch/2013	"Materiale perovskitice nanostructurate cu banda interzisa mica pentru aplicatii fotovoltaice si generare de hidrogen prin fotocataliza"	70,687.00	Buget de stat
53	C1-03 /2013	"Efectul radiatiei asupra SiC : rolul raportului dintre dimensiunile graunilor cristalini si a coliziunilor in cascada"	300,000.00	Buget de stat
54	idei 52/2013	"Realizarea tranzistorilor cu filme subtiri, transparente si flexibile din oxizi amorfi depusi prin ablatie laser"	303,821.00	Buget de stat
55	contract STAR 60/2013	"Stiinta si tehnologia acoperirilor cu emisivitate ridicata pentru aplicatii in radiatoare spatiale"	472,000.00	Buget de stat
56	contract STAR 65/2013	"Efectele radiatiei asupra oxizilor semiconductori si amorfi folositi pentru electronica pe substrat flexibil"	152,142.00	Buget de stat
57	PD 51/2013	"Masurarea precisa a calitatii aerului in zone de mediu poluate"	113,754.00	Buget de stat
58	PD 2/2013	"Studii aprofundate asupra efectelor induse de fascicule de ioni in filmele subtiri de nitruri si carbonitruri ale metalelor de tranzitie"	84,201.00	Buget de stat
59	Contract Idei 85/2013	"Procesarea si imobilizarea materialelor nanocompozite pe baza de carbon prin tehnici laser pentru dispozitive optoelectronice de inalta performanta"	337,478.00	Buget de stat
60	TE 14/2013	"Obtinerea de filme subtiri fara plumb de (Ba _{1-x} Cax)(Ti _{1-y} zry)O ₃ cu proprietati piezoelectrice inalte pentru microelectronica"	175,490.00	Buget de stat
61	TE 16/2013	"Filme subtiri de carbon aderente si dure sintetizate prin depunere laser pulsata pentru protectia la uzura a uneltelor de taiere si gaurire"	107,437.00	Buget de stat
62	Contract 38/2014	Acoperiri antireflex pentru laseri de mare putere in pulsuri ultra-scurte	50,735.00	Buget de stat
63	Contract 239/2014	Noua generatie de implanturi ortopedice bazate pe noi bioaliaje de Ti cu invelisuri biomimetice hibride	69,000.00	Buget de stat
64	Contract 34/2014	Aplicarea de tehnici laser pentru fabricarea de biosenzori pe baza de sisteme microfluidice de detectie in timp real	36,360.00	Buget de stat
65	Contract 245/2014	Implanturi ortopedice obtinute din aliaje multifunctionale tip "Gum	54,000.00	Buget de stat
66	Contract 12/2014	Sistem medical inovativ pentru monitorizarea tensiunilor interne in tesutul tumoral in scopul imbunatatirii tratamentului oncologic	29,415.00	Buget de stat
67	Contract 78/2014	Tratarea apelor reziduale prin procedee de floculare-oxidare mediate de floculanți și catalizatori derivați din nămol roșu	15,545.00	Buget de stat
68	Contract 94/2014	Noua generatie de sisteme de autocuratare fotocatalitice pentru functionalizarea textilelor tehnice si acoperiri arhitecturale	19,440.00	Buget de stat

69	Contract 266/2014	Cercetari privind corelatiile dintre caracteristicile fizice ale suprafetelor active ale componentelor optice si pragul lor de distrugere in fascicul laser intens	90,117.00	Buget de stst
70	Contract 290/2014	Instrument de spectroscopie in domeniul undelor milimetrice (THz) pentru identificarea substantelor periculoase	42,800.00	Buget de stat
71	Contract 19 RO-FR/2014	"Innovative BIOactive COATings for orthopaedic implants deposited BY new pulsed LASER methods (Biocoat_By_Laser)	357,450.00	Buget de stat
72	Contract 7-083/2014	"Straturi de carbon dopate cu Ag/Si pentru aplicatii biomedicale"	450,000.00	Buget de stat
73	Contract 766/2014	"Advanced puls laser tehnology for creations of functional material"	6,000.00	Buget de stat
74	Contract 224/2014	"Cercetarea Substitutiei Osoase cu materiale biocompozite fabricate prin tehnici specifice metalurgiei pulberilor"	4,912.50	Buget de stat
75	Contract E 12 /2014	Studii preliminare pentru implementarea experimentelor bio-medicale ELI-NP - ELI-BIOMED	47,443.00	Buget de stat
76	Contract F3/2014	Interactiuni atomice in campuri supercritice: investigatii teoretice si experimentale pentru FAIR/SPARC-SCAFI	22,457.00	Buget de stat
77	Contract 200/2014	"Sistem imagistic pentru diferentierea intre leziunile tumorale maligne si benigne bazat pe dualitatea dintre fluorescenta hiperspectrala si tomografia optica de difuzie"	85,300.00	Buget de stat
78	Contract 72/2014	"Sistem integrat de monitorizare si bioremedierea zonelor contaminate cu metale grele si radionuclizi"	13,448.00	Buget de stat
79	Contract 7-081/2014	"Noi materiale vitroase boro-fosfatice dopate ,sub forma de nano-pulberi si filme subtiri nanostructurate,cu proprietati optice si magnetice inalte, pentru fotonica"	380,250.00	Buget de stat
80	Contract PD 52/2012	"Straturi subtiri oxidice transparente si conductive depuse pe substraturi flexibile si eficiente pentru celule solare performate"	79,200.00	Buget de stat
81	Contract 226/2014	"Analiza compozitiei otelului lichid in situ si in timp real prin LIBS si spectrometrie de masa ale aerosolilor si gazelor evacuate in timpul procesului de degazare in vid"	225,000.00	Buget de stat
82	Pr. STAR 2/2012	STAR - Technology	60,000.00	Buget stat
83	parteneriat 58/2012	Sistem Laser pentru Aprinderea Motoarelor de Automobile	410,000.00	Buget de stat
84	3RO-FR/2012	Cercetarea si dezvoltarea de cristale optic nelineare (NLO) de tip borat pure si activate cu ioni Yb ³⁺ pentru realiz. de noi surse laser de mare putere cu emisie in vizibil,compacte si acordabile, bazate pe procese de conversie de frecventa	200,100.00	Buget de stat
85	82/2012	Procese de conversie superioara infrarosu-infrarosu si infrarosu-ultraviolet in fosfori dopati cu pamanturi rare	200,000.00	Buget de stat
86	35/2011	Procese de conversie cuantica a excitatiei in surse fotonice cu prospect pentru productie de energie sustenabila	162,500.00	Buget de stat

87	36/2011	Laseri de Tip Ghid de Unda obtinuti prin Tehnica Scrierii Directe cu Pulsuri, Laser cu durata de ordinul Femtosecondelor	190,000.00	Buget de stat
88	37/2011	Pulsuri TeraHertzi ultraintense obtinute in plasma generata de pulsuri laser ultrascurte , de mare intensitate	127,500.00	Buget de stat
89	309/2011	Temporally and spectrally resolved luminescence of lanthanide's doped tetravalent nano-oxides: A unitary approach	102,998.00	Buget de stat
90	contract 184EU/2012	cofinantare LASERLAB	60,905.76	Buget de stat
91	689/2013	Emitatoare si receptoare matriciale de radiatie THz pentru circuite integrate hibride	14,417.87	Buget de stat
92	10/2013	Noi cristale de inalta performanta pentru dezvoltarea de surse laser de mare putere acordabile in domeniul vizibil bazate pe procese optice nelineare	82,500.00	Buget de stat
93	IDEI 196/2011	Filme subtiri de oxid de zinc multifunctionale	167,687.00	Buget de stat
94	42/2011	Degradarea compusilor farmaceutici din apa folosind plasma netermica	173,750.00	Buget de stat
95	parteneriat 159/2012	High efficiency electrospinning.	104,832.00	Buget de stat
96	contract 4/2012	proiect ERK-Like Dincolo de reprezentarea curenta a organizarii spontane in fluide si plasma : o abordare bazata pe teorie de camp	445,000.00	Buget de stat
97	Contract 141/2014	Utilizarea Plasmelor reci pulsate la presiune ATmosferica pentru distrugerea Microorganismelor de pe suprafata Oualor de consum, in vederea cresterii Sigurantei alimentare.	85,000.00	Buget de stat
98	Contract 301/2014	Sistem complex de scanare cu raze X multiparametric pentru detectia materialelor periculoase din bagaje, cu aplicatii in domeniul Securitatii	21,357.00	Buget de stat
99	Contract IFA-CEA C4-01/2014	Caracterizarea si modelarea cablurilor supraconductoare: examinarea 3D de inalta acuratete a cablurilor supraconductoare prin micro-tomografie si imbunatatirea modelelor multifizice (electromagnetice, termo-hidraulice si mecanice) ale acestora./ TomoModelSupra	160,000.00	Buget de stat
100	Contract IFA-CEA C4-07/2014	Cresterea duratei de viata a placilor din CFC, grafit si CuCrZr acoperite cu W pentru utilizarea de lunga duratata interfata cu plasma de fuziune pentru proiectul WEST / PFCCOAT	160,000.00	Buget de stat
101	Contract Dubna		8,307.63	
102	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	215,000.00	Buget de stat
103	Star 100/2013	"Tehnologie pentru manipularea si indepartarea prafului pentru misiunile pe Marte"	304,720.00	Buget de stat
104	Contract ELI E06/2014	Accelerarea de electroni in plasma produsa de laseri de putere la GeV-LAPLACE	91,531.00	Buget de stat

105	Contract 0319/2014	Procese ecologice de extractie a compusilor valorosi din plante	21,910.00	Buget de stat
106	ctr.598/2013	Identification of optimum processing conditions for the preparations of Xanthan based super absorbent polymers by ionizing radiations"	6,878.52	Buget de stat
107	parteneriat 8/2012	Senzor systems for secure operation of critical insallations	317,106.00	Buget de stat
108	parteneriat 223/2012	Inquiry based education in science and tehnology	208,164.50	Buget de stat
109	proiect 176 EU/2012	cofinantare CLS	3,984.00	Buget de stat
110	contract STAR 6/2013	Monitorizarea secetei utilizand date in_situ si de teledetectie	75,000.00	Buget de stat
111	Contract STAR 67/2013	Evaluation of Components for Space Applications	272,614.00	Buget de stat
112	Contract IFA 340/2014	Reteaua Centrelor de Stiinta	9,860.00	Buget de stat
113	90/2011	Electron acceleration and polaritonic transport by laser-plasma interaction in new capillary configuration	85,625.00	Buget de stat
114	4/2011	Giga and tera-watt laser interaction with carbon, tungsten and beryllium films	168,125.00	Buget de stat
115	322/2011	Evaluation of an original alternative to treat osteomyelitis using an animal experimental model	125,188.00	Buget de stat
116	parteneriat 26/2012	New chemical systems based on nanocrystalline frameworks and porous architectures for intermediate temperature solid oxide fuel cells	73,003.00	Buget de stat
117	parteneriat 195/2012	Metoda si sistem inovativ pentru detectarea urmelor de droguri prin spectroscopie de masa asistata plasma-laser	280,000.00	Buget de stat
118	parteneriat 143/2012	Caracterizarea prin tehnici IBA si alte tehnici avansate a hidrogenului si a altor elemente usoare in filme subtiri de materiale utilizate in industria nucleara	154,000.00	Buget de stat
119	parteneriat 160/2012	Nanocompozite complexe pe baza de Carbon si titan pentru aplicatii industriale	112,000.00	Buget de stat
120	Contract PD 44/2013	Comparison of performances of dielectric barrier and bare electrodes atmospheric pressure plasma jet discharges	122,437.00	Buget de stat
121	Idei 81/2013	Diagnostica de procesare cu plasma: sinteza de nanofibre versus sinteza peretilor nanometrici de carbon	389,009.00	Buget de stat
122	contract STAR 53/2013	Accelerarea Laser in Plasma in Particule in vederea efectuarii de Teste privind expunerea la Radiatii- LEOPARD	500,000.00	Buget de stat
123	ctr. 633311/2014	Noaptea Cercetatorilor 2014.	28,144.35	Buget de stat
124	contract 140/2012	Developing new graphene-polymer composites biomaterials for scaffold febrication with applicability in bone repair by coupling multiscale molecular modelling and experiments	46,500.00	Buget de stat

125	Contract 220/2014	Acumulator redox cu capacitate de incarcare rapida, ca sursa principala de energie pentru autovehiculele electrice	10,000.00	Buget de stat
126	Contract IFA CEA C4-13/2014	Mobilizarea și colectarea prafului cu laser și plasmă / DUSTCO	160,000.00	Buget de stat
127	Contract E 03/2014	Extreme Light Induced Ablation Plasma Jet and Nanopatterning	29,560.00	Buget de stat
128	Contract Dubna		9,969.15	Buget de stat
129	Contract CETAL		6,869,000.00	Buget de stat
130	Ctr. EU 2	CAPACITATI, Modul III, Euratom- Fuziune	73,600.00	Buget de stat
131	Ctr. EU 14	CAPACITATI, Modul III, Euratom- Fuziune	208,408.00	Buget de stat
132	WPPFC-P	CAPACITATI, Modul III, Euratom- Fuziune	47,161.00	Buget de stat
133	WPPFC-C	CAPACITATI, Modul III, Euratom- Fuziune	63,849.00	Buget de stat
134	CTR. 1EU-1WPPFC_P	CAPACITATI, Modul III, Euratom- Fuziune	109,016.89	Buget de stat
135	Ctr. 1EU-2 WPCD_P	CAPACITATI, Modul III, Euratom- Fuziune	29,612.00	Buget de stat
136	Ctr. 1EU-3 WPMST1_P	CAPACITATI, Modul III, Euratom- Fuziune	22,135.00	Buget de stat
137	Ctr. 1 EU-3_ WPMST1_C	CAPACITATI, Modul III, Euratom- Fuziune	50,600.00	Buget de stat
138	Ctr. 1EU-4 WPJET1_P	CAPACITATI, Modul III, Euratom- Fuziune	49,325.00	Buget de stat
139	Ctr. 1EU-4 WPJET1_C	CAPACITATI, Modul III, Euratom- Fuziune	211,600.00	Buget de stat
140	Ctr. 1EU-5 WPJET2_P	CAPACITATI, Modul III, Euratom- Fuziune	264,513.00	Buget de stat
141	Ctr. 1 EU-5 WPJET2_C	CAPACITATI, Modul III, Euratom- Fuziune	368,000.00	Buget de stat
142	Ctr. 1EU-6 WPJET4.1_P	CAPACITATI, Modul III, Euratom- Fuziune	61,260.00	Buget de stat
143	Ctr. 1EU-6 WPJET4.1_C	CAPACITATI, Modul III, Euratom- Fuziune	92,000.00	Buget de stat
144	Ctr. 1EU-8 WPMAT_C	CAPACITATI, Modul III, Euratom- Fuziune	80,500.00	Buget de stat
145	Ctr. 1EU-9 WPMAG_P	CAPACITATI, Modul III, Euratom- Fuziune	20,437.00	Buget de stat
146	Ctr. 1EU-9 WPMAG_C	CAPACITATI, Modul III, Euratom- Fuziune	46,000.00	Buget de stat
147	Ctr. 1EU-10 WPENR_P	CAPACITATI, Modul III, Euratom- Fuziune	141,659.00	Buget de stat
148	Ctr. 1EU-10 WPENR_C	CAPACITATI, Modul III, Euratom- Fuziune	225,400.00	Buget de stat
149	Ctr. euratom	CAPACITATI, Modul III, Euratom- Fuziune	151,800.00	
150	Ctr. WPPFC-P	CAPACITATI, Modul III, Euratom- Fuziune	40,178.86	
151	Ctr. WPPFC-C	CAPACITATI, Modul III, Euratom- Fuziune	302,220.00	
152	Ctr. WPED-RO	CAPACITATI, Modul III, Euratom- Fuziune	171,960.00	

153	Ctr. WPPFC_C	CAPACITATI, Modul III, Euratom- Fuziune	328,450.00	
154	Ctr.. WPPFC-P	CAPACITATI, Modul III, Euratom- Fuziune	93,664.00	
155	Ctr. WPJET 2	CAPACITATI, Modul III, Euratom- Fuziune	144,887.00	
156	FP 7	18RO-Ch	158,222.46	Venituri realizate prin contracte de cercetare dezvoltare internationale finantate din fonduri publice
157	FP 7	LASERLAB III	211,556.65	
158	FP 7	Contract ESA	119,174.40	
159	FP 7	Garching	102,421.16	
160	FP 7	Korea	19,500.00	
161	FP 7	CEYS	2,475.18	
162	FP 7	CLS	60,389.31	
163	FP 7	Grant Comenius	27,897.61	
164	FP 7	Grant Sustain	14,953.97	
165	FP 7	UUKATA econ	13,100.00	
166	FP 7	EURATOM COFINANTARE	1,250,602.21	
167	ALTE VENITURI ECONOMICE	ECONOMICE	140,141.06	
	TOTAL INFLPR		49,919,640.60	
1.	CONTR 1/2012	Participarea la programele științifice ale ESA	400.000,00	
2.	CONTR 2/2012	Participarea la programele de tehnologii ale ESA	60.000,00	
3.	CONTR 5/2012	Knowledge Management Infrastructure-KAMI	40.000,00	
4.	CONTR 7/2012	Studiu Corelațional al Misiunilor Spațiale Privind Fizica Fundamentală. Oportunități Pentru Proiecte Spațiale Românești	420.000,00	
5.	CONTR 8/2012	Subsisteme pentru nanosateliți	121.250,00	
6.	CONTR 11/2012	Calibrarea magnetometrului flux gate Cluster si exploatarea stiintifică a datelor (TUNED)	200.000,00	
7.	CONTR 12/2012	Dihotomia radio in galaxiile cu nucleu activ si in sistemele binare de radiație X	200.000,00	
8.	CONTR 20/2012	Electrodinamică aurorală cu Swarm (ALEOS)	210.000,00	
9.	CONTR 29/2012	Contribuții la misiunea EUCLID	200.000,00	
10.	CONTR 31/2012	Detecția satelitară a fenomenelor de fluorescență slabă	200.000,00	
11.	CONTR 44/2012	GPU in GRID pentru știință si tehnologii spațiale	190.400,00	
12.	CONTR 45/2012	Validation of Swarm L-1b data using multi-point gradient estimation techniques (VALS)	240.000,00	
13.	CONTR 50/2012	RoBiSat - Misiune spațială românească cu doi sateliți de tip CubeSat.Dezvoltarea satelitului RoBiSat-1	168.572,00	
14.	CONTR 56/2013	Antrenamentul asistat de calculator cu feedback informațional pentru contramăsuri la zborul spațial cu echipaj uman	560.000,00	
15.	CONTR 59/2013	Centrul român de compententă în tehnologii pentru nanosateliți ROST-CC	550.000,00	

16.	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	
17.	CONTR 61/2013	Detectori cu diamant pentru experimente de spectrometrie de particule în spațiu (DIADEMS)	370.000,00	
18.	CONTR 64/2013	Testarea în fond de protoni și particule alpha a unor structuri fotovoltaice noi folosite în aplicații spațiale	422.000,00	
19.	CONTR 65/2013	Radiation effects on amorphous semiconductor oxides used for flexible and transparent microelectronics	95.000,00	
20.	CONTR 74/2013	Satelit de observare a Terrei cu aplicații în agricultură. Definirea misiunii - identificarea nevoilor și a cerințelor misiunii.	350.000,00	
21.	CONTR 83/2013	Studiu pilot al razelor cosmice de energii ultra înalte prin intermediul interacțiilor spațiale și atmosferice .	203.500,00	
22.	CONTR 85/2013	Materiale dielectrice avansate pentru aplicații și tehnologii spațiale în terahertzi	194.000,00	
23.	CONTR 90/2013	Generator de Plasmă Metalică pentru Aplicații Spațiale	599.000,00	
24.	CONTR 91/2013	Simulator pentru fluxuri de date la bord.	400.000,00	
25.	CONTR 102/2013	Calibrarea in-flight și îmbunătățirea calității datelor HIA/Cluster în vederea exploatarei științifice	240.000,00	
26.	CONTR 103/2013	Data mining în serii temporale de imagini satelitare folosind extragere de motive secvențiale sub constrânger.	353.000,00	
27.	CONTR-194/2012-IFIN-HH ISAR	Studiul radiației cosmice în Univers utilizând tehnici avansate	20.500,00	
28.	CONTR 200/2012 PARTENERIATE-ASRC	Monitorizarea precisă a stabilității infrastructurii folosind interferometria radar cu apertură multiplă combinată cu tehnici de extragere de motive spațio-temporale (DGI-SAR)	126.000,00	
29.	CONTR PARTENERIATE1 96/2012 -ASR	Platforma modulară de tip nanosatelit pentru observări și măsurări pe orbita terestră joasă-MOSON	170.000,00	
30.	CONTR PARTENERIATE-290/2014	Instrument de spectroscopie în domeniul undelor milimetrice (THz) pentru identificarea substanțelor periculoase	42.846,00	
31.	CONTR PARTENERIATE-279/2014	Sonda Kelvin cu Potențial Armonic pentru Aplicații Spațiale-KEPRO	123.000,00	
32.	CONTR-NUCLEU	LAPLAS 3	3.654.655,00	
33.	CONTR- DUBNA ZGURA	Detailed balance principle in the photodisintegration reaction of ^{80}Se	6.646,10	
34.	CONTR- DUBNA HAIDUC	Study of relativistic fragmentation of light radioactive nuclei in photoemulsion	6.646,10	

35.	CONTR-DUBNA HAIDUC	Nuclear diffraction dissociation of $^{16}\text{O}^{22}\text{Ne}^{28}\text{Si}^{32}\text{S}^{56}\text{Fe}$ at 1-3.7 A GeV in nuclear emulsion	6.646,10	
36.	CONTR-DUBNA POTLOG	Neutron Nuclear Data at IREN basic facility	6.646,10	
37.	CONTR-DUBNA POPESCU	Study of atmospherical phenomena influences on the EAS fluorecent signals on KLYPVE/TUA space experiments	6.646,10	
38.	CONTR-DUBNA MOGILDEA M.	Investigation of the radioactive hardness of microelectronic devices in the fields of neutrons and high energy heavy ions	4.984,58	
39.	CONTR-DUBNA MOGILDEA M.	Analyze of the possibility to use ion beams in the deeply electronuclear subcritical systems for energy production	4.984,57	
40.	CONTR- CAPACITATI 229//2013	Solar system plasma Turbulence: Observations, Intermittency and Multifractals.	121.500,00	
41.	CONTR- CAPACITATI 593/2012	Observarea si modelarea frontierelor magnetice din plasmale spațiale (OMMA)	7.147,83	
42.	CONTR- CAPACITATI 741/2014	Unde ULF in Magnetosferă	8.557,20	
43.	CONTR- IDEI 32 /2011	Particule exotice super massive în telescoape pentru neutrini	186.750,00	
44.	CONTR- IDEI 67/2011	Cuplaj Magnetosferă-Ionosferă in Regiunea Aurorală	105.000,00	
45.	CONTR- IDEI 69/2011	Studiul proceselor difractive în interacții produse în emulsia nucleară de ioni accelerate la 1-4 GeV si aplicații în astrofizică	187.500,00	
46.	CONTR- IDEI 82/2013	Studiul undelor gravitationale primordial cu anisotropia CMB.	200.501,00	
47.	CONTR- IDEI 83 /2013	Turbulența intermitenta și transfer de energie în vântul solar și magnetosferele planetare.	255.129,00	
48.	CONTR- RU TE 8/2013	Excitarea, propagarea și disiparea undelor ULF în magnetosferă (ERODIUM)	213.500,00	
49.	CONTR-RU 9/2011	Explorând fizica dincolo de Modelul Standard cu ajutorul găurilor negre microscopice și al neutrinilor	233.115,00	
50.	CONTR- RU TE 9/2013	Proprietăți termodinamice și funcții de corelație ale gazelor atomice reci în sisteme cu dimensionalitate redusă.	213.232,00	
51.	CONTR-RU PD 12/2013	Estimarea parametrilor unei discontinuități non-planare din plasma spațială: aplicație la magnetopauza terestră.	105.000,00	
52.	CONTR- RU TE 25/2011	Studiul Curgerii Anisotropice în Fizica Nucleară Relativistă folosind unitati grafice de procesare	200.000,00	
53.	CONTR- JETALICE/2012	Analize detaliate ale jeturilor în ciocnirile p-p si Pb-Pb la experimentul Alice"-JETALICE	770.823,56	

54.	CONTR- 8/2012	Contribuția națională la dezvoltarea gridului de calcul LCG pentru fizica particulelor elementare (CONDEGRID)	198.111,75	
55.	INSTALATII-18 II GRID	Instalatii grid de Interes Național	132.200,00	
56.	ROTALK SCIENCE	RoTalkScience	23.998,20	
57.	CAPACITATI-F03	Interactiuni atomice în campuri super-critice :investigatii teoretice si experimentale pentru FAIR/SPARC	14.970,00	
58.	CONTR-PECS 98050/2007	Romanian GRID middleware repository for Space Science Applications - RoSpaceGRID	703.591,64	
59.	CONTR-PECS 98051/2007	Scientific exploitation of the Planck-LFI data	416.176,54	
60.	CONTR-PTW 4000101997/10/NL /HE 2010	Portable Telemedicine Workstation Fleasibility Study, Definition and Specification - PTW	160.281,72	
61.	CONTR-FP7 7162/2010	FP7/INFRA (international) High-Performance Computing Infrastructure for South East of Europe's Research Communities - HP-SEE; Responsible (partner); 2010-2012	9.517,96	
62.	CONTR-FP7 – SPACE-2012- 313038	Solar system plasma Turbulence:Observations,intermittency and Multifractals.	298.591,95	
63.	CONTR-L3-OBIS	Leon based On-Board Instrument Software	229.656,84	
64.	CONTR- PANDELE	CONTR-PANDELE	352.275,16	
65.	EMSIS	Electric Motor Spin Into Space(EMSIS)	60.480,00	
66.		CONTRACT ECONOMIC	22.120,00	
	TOTAL ISS		16.656.650	
	TOTAL GENERAL		66.576.290,60	

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

Nr. Crt	Titlu	Revista, vol., pg., anul	Autori	Factor de impact
1.	Study on the effects of proton irradiation on the dc characteristics of AlGa _N /Ga _N high electron mobility transistors with source field plate	Journal of Vacuum Science & Technology B 32, Article Number: 022202, Published: MAR 2014	Liu L, Hwang YH, Xi YY, Ren F, Craciun V, Pearton S, Yang G, Kim H-Y, Kim J	1.3580
2.	Relevance of annealing on the stoichiometry and morphology of transparent thin films,	Applied Surface Science Volume: 306 Pages: 47-51 Published: JUL 1 2014	Prepelita P, Craciun V, Sbarcea G, Garoi F	2.5380
3.	Optical properties of amorphous indium zinc oxide thin films synthesized by pulsed laser deposition	Applied Surface Science Volume: 306 Pages: 52-55 Published: JUL 1 2014	Craciun V, Martin C, Socol G, Tanner D, Swart HC, Becherescu N, Craciun D	2.5380
4.	Band Offsets in YSZ/InGaZnO ₄ Heterostructure System	Journal of Nanoscience and Nanotechnology Volume: 14 Issue: 5 Pages: 3925-3927 Published: MAY 2014	Kim JK, Kim K-W, Douglas EA, Gila BP, Craciun V, Lambers ES, Norton, DP, Ren F, Pearton SJ, Cho H	1.3390
5.	Crystallization and microstructure of Eu ³⁺ -doped lithium aluminophosphate glass	Journal Non-Crystalline Solids, 403, 9-17, 2014	Roque S. Soares, Regina C. C. Monteiro, Andreia A. S. Lopes, Maria M. R. A. Lima, Bogdan A. Sava, Mihail Elisa	1.716
6.	Non-isothermal free-models kinetic analysis on crystallization of europium-doped phosphate glasses	Ceramics International, 40, 12387-12395, 2014	Bogdan Sava, Mihai Elisa, Cristina Bartha, Raluca Iordanescu, Ionut Feraru, Carmen Plapcianu, Roxana Patrascu	2.086
7.	Phase transformation and microstructural evolution after heat treatment of a terbium-doped lithium-aluminum phosphate glass	Journal of Materials Science, 49, 4601-4611, 2014	Roque S. Soares, Regina C. C. Monteiro, Maria M. R. A. Lima, Bogdan A. Sava, Mihail Elisa	2.305
8.	Eu ³⁺ luminescence in aluminophosphate glasses	Journal of Luminescence 2014	C. Nico, R. Fernandes, M.P.F. Graça, M. Elisa, B.A. Sava, R.C.C. Monteiro, L. Rino, T. Monteiro	2.367
9.	FTIR and Raman structural studies of glasses with copper and nickel wastes	Romanian Journal of Materials	Ursu, Luminita Daniela, Vasiliu, Ileana Cristina; Feraru, Ionut; Boroica, Lucica ; Sava, Bogdan Alexandru	0.52

10.	Measuring very low optical powers with a common camera	Applied Optics 53 (24), 5460-5464 (2014)	Popescu, S. T.; Gheorghe, P; Petris, A	1.649
11.	Covering obliquely deposited siox with polyvinyl carbazole changes the orientation properties	Romanian Journal of Physics 59 (7-8), 733-744 (2014)	Frunza, S; Zgura, I; Frunza, L; Rasoga, O; Gheorghe P; Petris, A; Vlad, VI	0.745
12.	Photoionization dynamics of the C2+ ion in Rydberg states	European Physical Journal D, 68, Issue 11, 349, Nov. 2014, DOI: 10.1140/epjd/e2014-50614-4	V. Stancalie	1.398
13.	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, 2014	T. Alexandru, A. Staicu, A. Pascu, E. Radu, A. Stoicu, V. Nastasa, A. Dinache, M. Boni, L. Amaral, M. L. Pascu	2.752
14.	Light cleavage of some potential linkers for drug carriers	Romanian Reports in Physics, 2014 accepted October 2014	T. Alexandru, A. Staicu, A. Pascu, A. Dinache, A. ben Abdeladhim, M. Enescu, A. Khatyr, M. L. Pascu	1.137
15.	Surface properties of Vancomycin after interaction with laser beams	Colloids and Surfaces A: Physicochemical and Engineering Aspects, Available online 21 September 2014, DOI:10.1016/j.colsurfa.2014.08.023.	A. Dinache, M. Boni, T. Alexandru, E. Radu, A. Stoicu, I. R. Andrei, A. Staicu, L. Liggieri, V. Nastasa, M. L. Pascu, M. Ferrari	2.354
16.	Interaction of solutions containing phenothiazines exposed to laser radiation with materials surfaces, in view of biomedical applications	International journal of Pharmacology, 475(1–2), 270–281, 2014.	A.Simon, T. Alexandru, M. Boni, V. Damian, V. Dutschk, M. L. Pascu	3.785
17.	Properties of polidocanol foam in view of its use in sclerotherapy	International Journal of Pharmaceutics, 2014, DOI:10.1016/j.ijpharm.2014.11.056	V. Nastasa, K. Samaras, Ch. Ampatzidis, T.D. Karapantsios, M.A. Trelles, J. Moreno-Moraga, A. Smarandache, M.L. Pascu	3.785
18.	Moderately stable emulsions produced by a double syringe method	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 460, 321-326, 2014, doi:10.1016/j.colsurfa.2014.01.044	V. Nastasa, K. Samaras, M.L. Pascu, T.D. Karapantsios	2.354

19.	Correlation between irradiation conditions and nanoparticles obtained in case of laser ablation of aluminum targets in liquids	OPTICS AND LASER TECHNOLOGY Volume: 59 Pages: 93-98 DOI: 10.1016/j.optlastec.2013.11.015 Published: JUL 2014	Damian, V; Apostol, I.; Apostol, D; Bojan, M; Iordache, I; Manoiu, S; Militaru, A; Udrea, C	1.694
20.	Addendum to the Sampling Theorem: Improved Accuracy Interpolation for Sampled Functions,"	Romanian Journal of Physics, Volume 59, Number 3-4, 2014	Petre Catalin Logofatu, Victor Nascov, "	0.745
21.	BaFBr:Eu2+ nanophosphor-SiO2 hybrid entrapped in Anodise Alumina membrane pores array,"	Radiation Measurements Volume: 68 Pages: 38-41 DOI: 10.1016/j.radmeas.2014.07.001 Published: SEP 2014	Secu, C. E.; Matei, E.; Secu, M.; Damian, V.	1.14
22.	Surface relief gratings induced by pulsed laser irradiation in low Tg azopolysiloxanes	Journal of Applied Polymer Science, Article first published online: 7 JUN 2014, DOI: 10.1002/app.41015	Victor Damian, Elena Resmerita , Iuliana Stoica, Constanta Ibanescu, Liviu Sacarescu, Licinio Rocha, Nicolae Hurduc	1.395
23.	Advantages of laser photoacoustic spectroscopy in radiotherapy characterization	Rom. Rep. Phys, Vol. 66, No. 1, pp. 120-126 (2014)	C. Popa, N. Verga, M. Pațachia, Ș. Băniță, C. Matei, and D. C. Dumitraș	1.1370
24.	Ethylene production of organic and nonorganic mature mushrooms measured by LPAS",	Rom. Rep. Phys., Vol. 66, No. 3, pp 887-892. (2014)	Ș Băniță, D. C. Dumitraș, A. M. Bratu, M. Pațachia and C. Popa	1.1370
25.	Photoacoustic detection of ethylene concentration in cherry tomatoes	Journal of Optoelectronics and Advanced Materials, Vol. 16, No. 1-2, pp. 82-86 (2014)	C. Popa, A. M. Bratu, D. C. Dumitraș, M. Pațachia, and Ș Băniță	0.5630
26.	Laser spectroscopy applied to analysis of active young women's breath	Rom. Rep. Phys. Vol. 66, No.4,pp. 1056–1060 (2014)	C. Popa	1.1370
27.	Testing fruits quality by photoacoustic spectroscopy assay	Laser Physics, Vol. 24, No. 10, doi:10.1088/1054-660X/24/10/105702 , (2014)	C. Popa, D. C. Dumitraș, M. Pațachia, and S. Băniță	1.0250
28.	IR spectroscopy study of the influence of inhaled vapors/smoke produced by cigarettes at active smokers	Journal of Biomedical Optics 20(5), 051003, [DOI: 10.1117/1.JBO.20.5.051003]	C.Popa	2.7520
29.	Acquisition and electrical signal processing in an experimental CW-Diffuse Optical Tomography system	Rom. Rep. Phys., Vol. 67 (2014). No. 4, pp 1061-1077	M. Pațachia, C. Popa, Ș Băniță, and D. C. Dumitraș	1.1370
30.	Spectroscopic assessment of ethylene Hormone production at strawberry fruits	U.P.B. Sci. Bull., Series A, Vol. 76, Iss. 3, pp 219-224(2014)	Ș Băniță	0.28

31.	A simple approach for the magnetic relaxation in systems of weakly-interacting, dispersive nanoparticles in applied magnetic field	J. Superconductivity Nov. Magnetism 27(3), 781-785 (2014)	Miu, Dana; Sima, C.; Jinga, S.I., Vasile, B.S.; Miu, L	0.930
32.	Evolution of Vortex dynamics in YBa ₂ Cu ₃ O ₇ films with nanorods by adding nanoparticles	Physica C 500, 40-43 (2014)	Miu, L; Mele, P.; Crisan, A.; Ionescu, A.; Miu, Dana	1.110
33.	Increased Diffusion Coefficient of Polymeric Nanocomposite Layer for Gas Sensing Applications	Sensors Letters, Vol 11, Number 12, pp.2327-2332, Decembrie 2013 (nu a fost prin in fisa de evaluare 2013)	Ionut Nicolae, Cristian Viespe, Natalia Serban, Constantin Catalin Negrila, Valentin Serban Teodorescu, Lucian Trupina	0.558
34.	The morphostructural characteristics of ZnO thin films deposited by ultraviolet laser ablation which may be used in dye sensitized solar cells"	Dig J Nanomater Bios, Vol (9), 1479-1484 (2014)	Sima, CORNELIA, Ion, LUCIAN, Grigoriu, CONSTANTIN, Mitran, TUDOR LUCA, Antohe, STEFAN	1.123
35.	Si/SiO ₂ quantum dots cause cytotoxicity in lung cells through redox homeostasis imbalance	Chemico-Biological Interactions, Vol(220), 102-115 (2014)	Hermenean, A., Dinischiotu, A., Stan, M., Memet I. , Sima, CORNELIA , Popescu, T., Teodorescu, V.	2.982
36.	Laser Irradiation of Carbon-Tungsten Materials	J. Phys. D: Appl. Phys. 47 (2014), pp. 355305	A.Marcu, L.Avotina, A.Marin, C.P.Lungu, C.E.A.Grigorescu, N.Demitri, D.Ursescu, C.Porosnicu, P.Osiceanu, G.Kizane and C.Grigoriu,	2.521
37.	High Repetition Rate Laser Ablation for Vapor-Liquid-Solid Nanowire Growth	Current Applied Physics, 14 (2014), pp.614-620	A.Marcu, F.Stokker, R.R.Zamani, C.P.Lungu and C. Grigoriu,	2.026
38.	The behavior of W, Be and C layers in interaction with plasma produced by terawatt laser beam pulses	Vacuum 110 (2014) pp. 207-212	C.P.Lungu, C.Porosnicu , Jecu, M. Lungu, A. Marcu, C. Luculescu, C. Ticos, A. Marin, C.E.A. Grigorescu	1.426
39.	Laser-induced forward transfer of single-walled carbon nanotubes	Applied Physics A- Materials Science & Processing, Volume: 117, Issue: 1, Pages: 371-376, DOI: 10.1007/s00339-014-8473-5, Published: OCT 2014	Palla-Papavlu, A; Dinescu, M; Wokaun, A; Lippert, T	1.6940
40.	Strain-induced long range ferroelectric order and linear electro-optic effect in epitaxial relaxor thin films	Journal of Applied Physics, Volume: 116, Issue: 7, Article Number: 074106, DOI: 10.1063/1.4893364, Published: AUG 21 2014	Scarisoreanu, N. D.; Craciun, F.; Birjega, R; Andrei, A; Ion, V; Negrea, R. F.; Ghica, C.; Dinescu, M	2.185

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113.	The influence of the iron based nanoparticles density in growth of carbon nanotubes by C-LCVD method	Journal of optoelectronics and advanced materials, Vol. 16, No. 3-4, March - April 2014, p. 429 – 434	I. P. Morjan, A. Badoi, C. Ceaus	0.563
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2	Multiplicity dependence of pion, kaon, proton and lambda production in p-Pb collisions at $\sqrt{s_{NN}}=502\text{ GeV}$	Physics Letters B – Nuclear, Elementary Particle and High-Energy Physics; Vol. 728; pp. 25-38; 2014	ALICE Collaboration (B. Abelev, ... A. Danu, D. Felea, M. Gheata, M. Haiduc, C.M. Mitu, M. Niculescu, A. Sevcenco, I. Stan, I.S. Zgura, ... et al.)	6,019
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46	Planck 2013 Results. XXIV. Constraints on primordial non-Gaussianity	Astron.Astrophys. 571 (2014) A24	Planck Collaboration (P.A.R. Ade, ... L. Popa, et al.)	5.084
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51	Planck 2013 results. XIX. The integrated Sachs-Wolfe effect	Astron.Astrophys. 571 (2014) A19	Planck Collaboration (P.A.R. Ade, ... L. Popa, et al.)	5.084
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89	Approximate controllability of Sobolev type fractional stochastic nonlocal nonlinear differential equations in Hilbert spaces	Electronic Journal of Qualitative Theory of Differential Equations 58, 1-16, 2014	Kerboua, Mourad; Debbouche, Amar; Baleanu, Dumitru	0.638
90	A New Impulsive Multi-Orders Fractional Differential Equation Involving Multipoint Fractional Integral Boundary Conditions	Abstract and Applied Analysis, 932747, 2014	Wang, Guotao; Liu, Sanyang; Baleanu, Dumitru; et al.	1.274
92	Sampled-data nonlinear observer design for chaos synchronization: A Lyapunov-based approach	Communications in Nonlinear Science and Numerical Simulation 19(7), 2444-2453, 2014	Faieghi, Mohammadreza; Mashhadi, Seyed Kamal-e-ddin Mousavi; Baleanu, Dumitru	2.569
93	Low-altitude electron acceleration due to multiple flow-bursts in the magnetotail	Geophys. Res. Lett., 41, 777-784, 2014	R. Nakamura, T. Karlsson, M. Hamrin, H. Nilsson, O. Marghitsu, O. Amm, C. Bunescu, V. Constantinescu, H. Frey, A. Keiling, J. Semeter, E. Sorbalo, J. Vogt, C. Forsyth, M. Kubyshkina	4,456
94	Magnetosphere-ionosphere coupling of global Pi2 pulsations	J. Geophys. Res. Space Physics, 119, 2717-2739, 2014	A. Keiling, O. Marghitsu, J. Vogt, O. Amm, C. Bunescu, V. Constantinescu, H. Frey, M. Hamrin, T. Karlsson, R. Nakamura, H. Nilsson, J. Semeter, E. Sorbalo	3.440
95	Evidence for the braking of flow bursts as they propagate toward the Earth	J. Geophys. Res. Space Physics, 119, 9004-9018, doi:10.1002/2014JA020285, 2014	M. Hamrin, T. Pitkänen, P. Norqvist, T. Karlsson, H. Nilsson, M. André, S. Buchert, A. Vaivads, O. Marghitsu, B. Klecker, L. Kistler, I. Dandouras	3,440

96	PADI, an ultrafast Preamplifier - Discriminator ASIC for Time-of-Flight Measurements	IEEE Trans. Nucl. Sci., 61(2), 1015-1023, Part 2, April 2014	M. Ciobanu, N. Herrmann, K.D. Hildenbrand, M. Kiš, A. Schüttauf, H. Flemming, H. Deppe, S. Löchner, J. Frühauf, I. Deppner, P.A. Loizeau, M. Träger,	1.455
97	The CBM Time-of-Flight wall - a conceptual design	Journal of Instrumentation 9 C10014, doi:10.1088/1748-0221/9/10/C10014, 2014	I. Deppner, N. Herrmann, A. Akindinov, D. Bartos, A. Balaceanu, S. Belogurov, P. Cao, G. Caragheor-gheopol, H. Chen, J. Cheng, M. Ciobanu, F. Constantin, Z. Deng, H. Deppe, V. Duta, H. Fan, H. Flemming, J. Frühauf, J. Gebelein, K. Heidel, K. Hildenbrand, U. Kebschull, M. Kis, S. Kiselev, K. Koch, P. Koczon, R. Kotte, A. Laso Garcia, J. Lehrbach, C. Li, Y. Li, P.-A. Loizeau, P. Lv, D. Malkevich, S. Manz, L. Naumann, A. Nedosekin, W. Niebur, A. Oancea, M. Petris, M. Petrovici, V. Plotnikov, M. Prokudin, L. Radulescu, M. Shao, V. Simion, C. Simon, R. Sultanov, Y. Sun, Z. Tang, Y. Wang, J. Wustefeld, C. Xiang, N. Xu, Y. Zhang, D. Zhoui and X. Zhuf	1.526
98	Wavevector anisotropy of plasma turbulence at ion kinetic scale: solar wind observations and hybrid simulations	Nonlin. Proc. Geoph. 21, 1075-1083, doi:10.5194/npg-21-1075-2014, 2014	H. Comisel, Y. Narita, U. Motschmann	1.692
99	A Simple Method of Determining Cloud-Masks and Cloud-Shadow-Masks From Satellite Imagery,	IEEE Geoscience and Remote Sensing Letters, 11(1), 10-13, 2014.	Cucu-Dumitrescu, C.:	1.809
	TOTAL ISI ISS			420,052

TOTAL GENERAL ISI (INFLPR+ISS)=446+420,052=866,052

Anexa 4: Lista brevete de invenție (solicitate/acordate)

INFLPR

Nr. Crt.	Titlu	Revista oficiala	Inventatori/Titulari	Solicitat/acordat
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1.	Procedeu de tratament termic al filmelor oxidice în vederea obținerii de electrozi de contact pentru celule solare		Petronela Garoi, Valentin Craciun, Cristian Viespe, Florin Garoi	Brevet: a/2014/004 39
2.	Procedeu de obtinere de nanoparticule magnetice prin ablatie laser;		D. Miu, C. Sima, I. Nicolae, C. Viespe, I. Nistorescu,	Solicitat A/00776/2014
3.	“Metoda de realizare a unei mese de titan cu acoperire de hidroxiapatita”,	Romanian Patent RO-BOPI 4/2014 din 30.04.2014	Poeta I., Chiriac A., Mihailescu I.N., Socol G., Duta L., Popescu A. C., Sima F., Miroiu M., Stan G., Petrescu S., Ianculescu A.	Acordat
4.	Dispozitiv de procesare a precursorilor gazosi si solizi pentru obtinerea de nanotuburi carbonice de productivitate mare utilizand un laser CW cu CO ₂	BOPI	Gavrila-Florescu L, Morjan I, Luculescu C, Popovici E, Morjan IP, Badoi A	Solicitat 946/03.12.2 014
5.	Instalatie de sinteza cu laser de mare productivitate de nanostructuri din precursori lichizi cu mare toxicitate si pericolozitate prin vaporizare termica cu obtinerea fazei gazoase la temperaturi peste limita temperaturii de fierbere si sub limita temperaturii de descompunere cu control automat precis si riguros al temperaturii pana la 500°C cu grad mare de reproductibilitate a sintezei	BOPI	Popovici E, Morjan I, Alexandrescu R, Voicu I, Gavrila Florescu C. L, Morjan P.I, Luculescu R. C, Dumitrache F, Sandu I, Fleaca C. T, Scarisoreanu M, Dutu E, Barbut A. D,	Acordat 00394 BOPI /2014 (27.04.2011)
6.	Instalatie de Sinteza de Nanostructuri prin Piroliza Laser din Precursori Solizi	BOPI	Gavrila-Florescu, Popovici E, Morjan I	Solicitat A 00984/ 2014
7.	Metoda de sinteza de materiale pure prin ablatie laser in flux invers din tinte multiple neparalele	BOPI	C.R. Luculescu, I. Morjan, E. Popovici	Solicitat 947/03.12.2 014
8.	Sticle aluminofosfatice care contin ioni de pamanturi rare, utilizate ca senzori optici si procedeul de obtinere a acestora		B. Sava, L. Boroica	Solicitat A/00251/01. 04.2014
9.	Sistem Hibrid pentru Generarea Polarizării Circulare si Ajustarea Frontului de Unda pentru Fascicule Laser	OSIM/A00355	D. Ursescu, M. Cernaianu	Solicitat
10.	Sistem pentru generarea polarizarii circulare in cazul fasciculelor laser de banda larga folosind oglinzi metalice	OSIM/A00114	D. Ursescu, M. Cernaianu, T. Asavei	Solicitat

11.	Process for producing a crystal in plasma comprises spherical or cylindrical micro-particles, consisting of conductive or dielectric materials, between two plane parallel electrodes;	Patent Number: RO129569-A2	TICOS C M;	
12.	METHOD FOR PRODUCING CARBON-TUNGSTEN COMPOSITE FILMS WITH THERMIONIC VACUUM ARC;	Patent Number: RO129461-A2	LUNGU P C; POROSNICU C C; JEPUL; TICOS C; AUREL M; ZAROSCHI V N; TIRON V; POPA G; VLADOIU R; CIUPINA V;	
13.	PROCESS FOR REMOVING SO ₂ AND NO _x FROM INDUSTRIAL FLUE GASES BY TREATMENT WITH MEDIUM ENERGY ACCELERATED ELECTRONS IN THE PRESENCE OF FINE WATER DROPLETS;	Patent Number(s): RO129069-A2	IGHIGEANU D P; CALINESCU I; MARTIN D; MATEI C;	
14.	Metoda si echipament pentru monitorizarea distribuita a unui camp de radiatie ionizanta.		Dan Sporea, Andrei Stancalie, Adelina Sporea	Cerere A/00452 din 17.06.2014
15.	Method of growing carbon nanowalls on a substrate	brevet international	Ita Junkar, Martina Modic, Alenka Vesel, Gheorghe Dinescu, Sorin Ionuț Vizireanu, Silviu-Daniel Stoica, Karin Stana Kleinschek, Miran Mozetic	depus în Marea Britanie pe 13.10.2014, cu numărul 1418056.6
16.	System and method for testing components, circuits and complex systems using synchronized and pulsed fluxes consisting of laser accelerated particles	International Patent Application PCT/RO2104/0000 22 (2014)	M. Ganciu, M. I. Piso, O. Stoican, B. Mihalcea, C. Diplasu, O. Marghitu, A. Groza, A. Surmeian, A. Julea, R. Dabu, I. Morjan,	Solicitat
17.	Method For Producing Carbon-Tungsten Composite Films With Thermionic Vacuum Arc	RO129461-A2	LUNGU P C, POROSNICU C C, JEPUL, TICOS C, AUREL M, ZAROSCHI V N, TIRON V, POPA G, VLADOIU R, CIUPINA V	aprobat
18.	Straturi antifricțiune ternare de tip C-Ti-Me (Me: Ag, Al) si metoda de depunere	A/00938 din data de 2.12.1014	Porosnicu C. C., Lungu C.P., Jepu I., Pompilian G.O., Dinca P.P., Lungu M	Depus

19.	System and method for testing components, circuits and complex systems using synchronized and pulsed fluxes consisting of laser accelerated particles	PCT/RO/2014/000022	M. Ganciu-Petcu, M. I. Piso, O. S. Stoican, B. M. Mihalcea, C. Diplasu, O. Marghitu, A. M. Julea, A. Surmeian, A. L. Groza, A. V. R. Dabu, I. Morjan	Cerere de brevet internațional
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Crt.	Titlul brevetului solicitat	Publicația oficială	Inventatorii/Titularii
1	System and method for testing components, circuits and complex systems using synchronized and pulsed fluxes consisting of laser accelerated particles	PCT/RO2014/000022	M. Ganciu, M.-I. Piso, O. Stoican, B. Mihalcea, C. Diplasu, O. Marghitu, A. Julea, A. Surmeian, A. Groza, R. Dabu, I. Morjan

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

INFLPR

Nr. Crt.	Produs/serviciu/ tehnologie	Date tehnice	Domeniu de utilizare
1.	Taiere cu laser in chipuri a unor fragmente de plachete de GAN/Si procesate.	Contract: 1854/21.10.2014, executant INFLPR, Beneficiar: Institutul National pentru Microtehnologie IMT Bucuresti. Valoare: 3500 lei	Optica, Nanofotonica
2.	Metode de masurare in timp real al ariei efective si duratei efective a spotului laser implementate in cadrul statiei automate de testare a componentelor optice in camp laser intens, Autori: Stratan A., Nemes G., Zorila A., Dumitrache I., Rusen L.	Contract 7/01.11.2013, executant INFLPR, Beneficiar: Ophir Optics SRL din Bucuresti (producatorul componentelor optice testate). aproximativ 7000 euro pe anul 2014.	Servicii efectuate de Laboratorul ISOTEST pentru companii producatoare de optica (Ophir Optics SRL, subsidiar Newport Corp. USA; Ophir Optronix Israel)
3.	Studiu tehnologic privind comportarea componenelor optice in camp laser intens conform standardului ISO privind masurarea PDCL prin testul S-on-1 (standard ISO 21254-2). Autori: Stratan A., Nemes G., Zorila A., Dumitrache I., Rusen L.	Contract 7/01.11.2013, executant INFLPR, Beneficiar: Ophir Optics SRL din Bucuresti (producatorul componentelor optice testate). aproximativ 7000 euro pe anul 2014.	Servicii efectuate de Laboratorul ISOTEST pentru companii producatoare de optica (Ophir Optics SRL, subsidiar Newport Corp. USA; Ophir Optronix Israel)
4.	Tehnologii debitare placi aluminiu cu fante de 160 µm	Contract 12/11.12.2013, Factura nr. 200001/09.01.2014, valoare 496 lei	Institutul National de Cercetare-Dezvoltare Aerospatalia (INCAS)
5.	Tehnologii debitare placi aluminiu cu grosime de 0,8 mm	Contract 2/9.07.2014, Factura nr. 200157/14.07.2014, valoare 496 lei	Institutul National de Cercetare-Dezvoltare Aerospatalia (INCAS)
6.	Studiu tehnologic privind obtinerea sticlelor fosfatice dopate prin topire in creuzete din alumina	Temperaturi de topire 1200 -1300°C Temperaturi de recoacere 470-500°C	Sticle optice pentru comutatoare opto-electronice

7.	Studiu tehnologic privind obtinerea sticlelor boro-fosfatice dopate, prin topire in creuzete din alumina	Temperaturi de topire 1280 -1300°C Temperaturi de recoacere 490-500°C	Sticle optice pentru rotator Faraday
8.	Studiu tehnologic privind obtinerea peliculelor boro-fosfatice dopate, prin metoda PLD	Grosime pelicula 0,5-1microni Fluenta peste 2,5J/cm2 12500-25000 pulsuri Presiune 10-4mbar	Pelicle vitroase pentru rotator Faraday
9.	Studiu tehnologic privind obtinerea peliculelor boro-fosfatice dopate cu Bi si Pb, prin metoda MS	Grosime pelicula 0,5-1 micron Putere activa 100 W Presiune 10-3 mbar Argon	Pelicle optice pentru rotator Faraday
10.	Studiu tehnologic privind obtinerea de pulberi magnetice pe baza de TiO ₂ invelite in polimeri carbosilanici cu proprietati catalitice	Putere activa - 400 W Presiune - 450 mbar Dimensiuni : 10-30 nm	Pulberi TiO ₂ pentru aplicatii fotocatalitice
11.	Studiu tehnologic privind obtinerea materialelor anorganice de tip oxidic TiO ₂ si ZnO cu sensibilitate ridicata in VIS	Putere activa - 450 W Presiune - 300 mbar	Pulberi TiO ₂ si ZnO pentru filme fotocatalitice
12.	Cresterea prin metoda Czochralski a doua cristale de tip Ba _{1-x} Sr _x TiO ₃	Contract: 3/15.10.2014 <u>Executant</u> : INCDFLPR - Laboratorul ECS <u>Beneficiar</u> : Institutul National de Cercetare-Dezvoltare pentru Fizica Materialelor, Str. Atomistilor 105 bis, 077125 Magurele, Ilfov Valoare: 9.000 lei / 2014	Feroelectricitate
13.	Proiectare, executie, testare si reglare a unor componente necesare functionarii unui echipament laser (consultanta stiintifica si tehnica)	Contract: 9/14.11.2013 <u>Executant</u> : INCDFLPR - Laboratorul ECS <u>Beneficiar</u> : S.C. Cvintall Enterprises S.R.L., Str. Atomistilor 407, Bloc Turn IFA, cam. 511, Magurele, Ilfov Valoare: 4.000 lei / 2014	Medicina
14.	Asistenta accelerator electroni de 8 MeV	Inlocuire magnetron, punere in functiune - Numele beneficiarului: FECNE Nuclear Components SRL - Nr. contract economic 201400136, data 13.05.2014, valoare 22320,00 RON (cu TVA)	Industria energetica-echipamente nucleare/ control nedistructiv-defectoscopie
15.	Asistenta accelerator electroni de 8 MeV	Reparatie sursa de inalta tensiune, punere in functiune- Numele beneficiarului: FECNE Nuclear Components SRL - Nr. factura:, nr.200007, data 10.02.2014, valoare 2788,40 RON (cu TVA)	Industria energetica-echipamente nucleare/ control nedistructiv-defectoscopie

16.	Platforma educationala colaborativa	Permite dezvoltarea de proiecte educationale in format colaborativ (http://81.181.130.13/ibest) Peste 8500 de vizitatori	Educatie in domeniul stiintelor in invatamantul preuniversitar
17.	Pulberi nanometrice de W	dimensiuni intre 50-200nm, cristaline, din α W si β W, cu diferite morfologii	studii de fuziune nucleara
18.	Contract prestari servicii Nr. 5/06.11.2014, firma Luxurymanagement24 – Germania.	Depuneri straturi aderente folosind plasma anodica de inalta tensiune pe substrat speciale furnizate de catre beneficiar.	Imbunatatirea calitatii produselor

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

INFLPR

Nr. Crt.	Titlu	Revista, vol., pg., anul	Autori
1.	Surface Acoustic Wave Sensors Based on Nanoporous Films for Hydrogen Detection	Key Engineering Materials, vol. Materials and Applications for Sensors and Transducers III, ISBN-13: 978-3-03835-051-4, Proceedings of 3rd International Conference on Materials and Applications for Sensors and Transducers (IC-MAST 2013), p. 331-335, (2014)	C.Viespe
2.	Testing fruits quality by laser photoacoustic spectroscopy	Recent Advanced in Biology, Biomedical and Bioengineering, Proceedings of the 3rd International Conference on Health Science and Biomedical System (HSBS' 14), 6, pp.63-67, ISBN: 978-60-474-401-5	S. Banita, M. Patachia, D.C. Dumitras, C.Achim, M. Bercu, A.M. Bratu, C. Matei
3.	"VIS/IR spectroscopy of AlN thin films grown by pulsed laser deposition at 400°C and 800°C and various N ₂ pressures",	Journal of Physics: Conference Series 514 (2014) 012001	S. Bakalova, A. Szekeres, A. Anastasescu, M. Gartner, L. Duta, G. Socol, C. Ristoscu, I. N. Mihailescu,
4.	"Synthesis of Nanostructured PLD AlN Films: XRD and Surface-Enhanced Raman Scattering Studies,	Micro and Nanosystems, 6 (2014) 9-13	Silvia Bakalova,, Anna Szekeres, Zsolt Fogarassy, Stefan Georgiev, Tzvetan Ivanov, Gabriel Socol, Carmen Ristoscu, Ion N. Mihailescu,
5.	"Hybrid Laser Technology for Composite Coating and Medical Applications",	Journal of Engineering Science, Vol. 10, 1–8, 2014	M. Jelínek, T. Kocourek, P. Písařík, J. Mikšovský, J. Remsa, I. N. Mihailescu, J. Kopeček,
6.	"Nanoprofiles of TiO ₂ films deposited by PLD using an evanescent light method",	World Journal of Engineering 11(2) (2014) 111-116	N. Mirchin, A. Peled, J. Azoulay, L. Duta, G. Dorcioman, A. C. Popescu, I. N. Mihailescu,
7.	„Thermal phenomena induced in a small C sample under irradiation with a few MeV electron beam by analogy with the laser-metal interaction formalism	JOURNAL OF INTENSE PULSED LASERS AND APPLICATIONS IN ADVANCED PHYSICS, Vol. 4, No. 4, 2014, p. 65 – 70	M. Oane, D. Toader, I. Neguț, I.N. Mihăilescu, N. Mihăilescu, A. Visan, C. M. Ticoș,
8.	High harmonics generation at the interaction of an intense fs laser pulse with an overdense plasma layer	Journal of Physics Conference Series, 508 , 012019, 2014, DOI:10.1088/1742-6596/508/1/012019	A. Mihailescu, V. Stancalie, V. Pais
9.	"Real-Time Adaptive Optimization of Laser Induced Nano Ripples by Laser Pulse Shaping"	Proceedings of SPIE Volume: 8967 Article Number: 896704 Published: 2014	Srisungsitthisunti, Pornsak; Zamfirescu, Marian; Neagu, Liviu P.; Faure, Nicolas; Stoian, Razvan;
10.	The Influence of Gravity on Single.Crystallization in Large Volume Drops	Journal of Crystallization Process and Technology, 2014, 4, 206-211	Ion Sandu, Iuliana Iordache, Claudiu.Fleaca, Florian. Dumitrache ,M.Niculescu

11.	Laser emission from diode-pumped Nd:YAG cladding waveguides obtained by direct writing with a femtosecond-laser beam	Proc. SPIE 9135, Laser Sources and Applications II, 91351F (May 1, 2014); doi: 10.1117/12.2052250; http://dx.doi.org/10.1117/12.2052250	G. Salamu, F. Voicu, F. Jipa, M. Zamfirescu, T. Dascalu, and N. Pavel
12.	„A field theoretical prediction of a property of the tropical cyclone”	Discussion forum at the Nonlinear Processes in Geophysics (2014)	F. Spineanu, M. Vlad,
13.	„Regimes of self-organized criticality in the atmospheric convection”	electronic paper arXiv: http://arxiv.org/pdf/1404.4538.pdf (2014)	F. Spineanu, M. Vlad, D. Palade,
14.	„Field theoretical formulation of the asymptotic relaxation states of ideal fluids”	electronic paper arXiv: http://arxiv.org/pdf/1312.6613.pdf (2014)	F. Spineanu, M. Vlad,
15.	<u>General static polarizability in spherical neutral metal clusters and fullerenes within Thomas-Fermi theory</u>	http://arxiv.org/pdf/1406.3826v1.pdf	D.I. Palade, V. Baran
16.	Optical response of C60 fullerene from a Time Dependent Thomas Fermi approach	http://arxiv.org/pdf/1408.1899v2.pdf	D.I. Palade, V. Baran
17.	On the collectivity of Pygmy Dipole Resonance within schematic TDA and RPA models	http://arxiv.org/pdf/1411.6965v2.pdf	V. Baran ¹ , D.I. Palade ¹ , M. Colonna ² , M. Di Toro ³ , A. Croitoru ¹ , and A.I. Nicolin ¹
18.	Monte Carlo tests of Orbital-Free Density Functional Theory	http://arxiv.org/pdf/1412.3956v1.pdf	D.I. Palade
19.	Non-linear simulations of MHD instabilities in tokamaks including eddy currents effects and perspectives for extension to halo currents	Journal of Physics: Conf. Ser. 561, 012011, 2014	M. Hoelzl, P. Merkel, G. Huysmans, C.V. Atanasiu, K. Lackner K, et al
20.	Thermal phenomena induced in a small C sample underirradiation with a few MeV electron beam by analogy with the laser-metal interaction formalism	JOURNAL OF INTENSE PULSED LASERS AND APPLICATIONS IN ADVANCED PHYSICS Vol. 4, No. 4, 2014, p. 65 - 70	M. OANE, D. TOADER, I. NEGUȚ, I.N. MIHĂILESCU, N. MIHĂILESCU, A. VISAN, C. M. TICOȘ,
21.	Dust removal from surfaces in a low pressure environment	41st EPS Conference on Plasma Physics O4.J105	C. M. Ticos, D. Toader, A. Scurtu, T. Chereches, P. Lixandru,
22.	Preparation of metallic nanoparticles by irradiation in starch aqueous solution	AIP Conf. Proc. 1634, 180-185 (2014)	Monica R. Nemțanu, Mirela Brașoveanu and Nicușor Iacob,
23.	THE CROSSLINK DENSITY OF ETHYLENE-VINYL-ACETATE COPOLYMER/TRIALLYLCYANURATE MIXTURE CROSS-LINKED BY ELECTRON PROCESSING	Revista de Pielarie Incaltaminte 14 (2014) 1	Maria Daniela STELESCU, Elena MĂNĂILĂ, Gabriela CRĂCIUN, Daniel IGHIGEANU, Dana GURĂU,
24.	Terbium-doped gadolinium oxysulfide(Gd ₂ O ₂ S:Tb)scintillation-based polymer optical fibre sensor for real time monitoring of radiation dose in oncology	Proc. SPIE vol.9141, Optical Sensing and Detection III, 914113 (15 May 2014); doi: 10.1117/12.2058572	Lewis,E;O'Keeffe,S; Grattan, M; Hounsell, A; McCarthy, D;Woulfe,P;Cronin,J; Mihai, L; Sporea, D; Santhanam, A; Agazaryan, N

25.	The ECSA project	IEEE, Transparent Optical Networks (ICTON), pag. 1 – 4, 6-10 July 2014 doi: 10.1109/ICTON.2014.6876656	Sporea, D; Sporea, A; Mihai, L; Stancalie, A
26.	Raman spectra massive classification using artificial neural networks	RT/2014/13/ENEA, ISSN/0393-3016	S. Botti, G. Dipoppa, A. Puiu , S. Almagiva
26.	Structure and electrochemical properties of track membranes with a polymer layer obtained by plasma polymerization of acetylene	Journal of Physics Conference Series, vol. 516, article no. 012006, doi:10.1088/1742-6596/516/1/012006	L. I. Kravets, S. N. Dmitriev, V. Satulu, B. Mitu, G. Dinescu
27.	Nanofluidic diodes based on the track membranes modified by plasma	Proceedings of the IX International Conference "Vacuum Equipment, Materials and Technology", 15-17 Aprilie 2014, Moscova, Rusia, Pag. 195-199	L.I. Kravets, A.B. Gilman, M.Yu. Yablokov, V. Satulu, B. Mitu, G. Dinescu
28.	Modification of Track membranes in Plasma for Producing Micro- and Nanofluidic diodes	Proceeding of Int. Conf. Phys. Of Low. Temp. Plasma, ICLTP 2014, May 20 - 23, 2014, Kazan, pages 256-260	L. Kravets, A. Gilman, M. Yablokov, V. Satulu, B. Mitu, G. Dinescu
29.	Synthesis and properties of metallic particles obtained by a RF plasma jet operating from low to atmospheric pressure	Proceedings of The XXII Europysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), 15-19 iulie, 2014, Greifswald, Germania	A. Lazea-Stoyanova, M. Enculescu, V. Marascu, G. Dinescu

ISS

Crt.	Titlul lucrării	Revista	Autorii
1	Radiation from particles accelerated in relativistic jet shocks and shear-flows	2014 Fermi Symposium Proceedings, e-Conf C14102.1	Nishikawa, K. -I.; Hardee, P.; Mizuno, Y.; Dutan, I.; Zhang, B.; Medvedev, M.; Choi, E. J.; Min, K. W.; Niemiec, J.; Nordlund, A.; Frederiksen, J. T.; Sol, H.; Pohl, M.; Hartmann, D. H.; Marscher, A.; Gomez, J. L.
2	Very Long Baseline Interferometry with the SKA	Conference: C14-06-09.8	Z. Paragi, ... V. Tudose, et al.
3	Leptonic asymmetry and neutrino hierarchy after Planck	Conference: C14-03-15 p.235-238 Proceedings	L.A. Popa, A. Caramete, D. Tonoiu
4	A search for time dependent neutrino emission from microquasars with the ANTARES telescope	Journal of High Energy Astrophysics, Volume 3, p. 9-17, 2014	Adrian-Martinez, S.; Caramete, L., Pavalas, G. E.; Popa, V.; et al. (ANTARES Coll.)
5	In-flight calibration of the Hot Ion Analyser on board Cluster	Geosci. Instrum. Method. Data Syst., 3, 49-58, 2014	A. Blagau, I. Dandouras, A. Barthe, S. Brunato, G. Facskó, and V. Constantinescu
6	Origin of the filamentary structure în space plasmas	Geosci. Lett. 1:12, doi: 10.1186/s40562-014-0012-x, 2014	H. Comisel, V. Constantinescu, Y. Narita
7	Spatial structure of ion-scale plasma turbulence	Front. Phys. 2, 13, doi: 10.3389/fphy.2014.00013, 2014	Y. Narita, H. Comisel, U. Motschmann

8	NeuLAND - from prototypes to double-planes	GSI Scientific Report 2013, FG-S-FRS-11, doi:10.15120 /GR-2014-1-FG-S-FRS-11	K. Boretzky, B. Agrawal, G.D. Alkhazov, ..., M. Ciobanu, ..., A.A. Zhdanov, A. Zilges, K. Zuber, forthe R3B collaboration, and the FAIR@GSI RBRB1
9	Characterization of the GET4 v1.0 TDC ASIC with detector signals	GSI Scientific Report 2013, NQM-CBM-24, doi:10.15120 /GR-2014-1-NQM-CBM-24	P.-A. Loizeau, N. Herrmann, I. Deppner, C. Simon, C. Xiang, M. Ciobanu, H. Deppe, H. Flemming, J. Fruhauf, M. Kis, K. Koch, S. Linev, S. Manz, and the CBM ToF working group

Anexa 7: Listă comunicări științifice prezentate la conferințe internaționale

INFLPR

Nr crt	Titlu comunicarii/ tip prezentare	Conferinta, locul, tara, data	Autori
1.	Automatic detection of skin melanoma from images using natural computing approaches/ prezentare orală	10th International Conference on Communications (COMM), Romania, 29-31 Mai 2014.	Dumitrache, I.; Sultana, A.E.; Dogaru, R.
2.	Nano-patterning of the materials surface by laser enhanced photoresist mask/ poster	International Conference "MODERNLASER APPLICATIONS" INDLAS, Bran, Romania, 20-24 May, 2014.	F. Jipa, M. Zamfirescu, S. Simion, I. Anghel, M. Filipescu, R. Dabu.
3.	Arbitrary patterns generated by single pulse near-field laser ablation/ prezentare orală	International Conference on Nanosciences&Nanotechnologies (NN14), Thessaloniki, Greece, 8-11 July, 2014.	F. Jipa, M. Zamfirescu, M. Filipescu, S. Simion, A. Dinescu
4.	Thin film beam splitter multiple short pulses generation for enhanced Ni-like Ag X-ray laser emission/ poster	International Conference "MODERN LASER APPLICATIONS" INDLAS, Bran, Romania, 20-24 May, 2014.	Gabriel Cojocaru, Razvan Ungureanu, Romeo Banici, Daniel Ursescu, Olivier Delmas, Moana Pittman, Olivier Guilbaud, Sophie Kazamias, Kevin Cassou, Julien Demailly, Olivier Neveu, Elsa Baynard and David Ros.
5.	Pump energy reduction for a high gain Ag X-ray laser using one long and two short pump pulses/ poster	International Conference "MODERNLASER APPLICATIONS" INDLAS, Bran, Romania, 20-24 May, 2014.	Romeo Banici, Gabriel Cojocaru, Razvan Ungureanu, Razvan Dabu, Daniel Ursescu, Holger Stiel
6.	Temporal characterization of long chirped laser pulses/ prezentare orală	ISCP, Orastie, Romania, 23 – 26 September 2014.	R.Ungureanu, G.Cojocaru, R.Banici, D. Ursescu
7.	New and efficient methods for laser surface nanopatter/ invitat	ISCP, Orastie, Romania, 23 – 26 September 2014.	M. Zamfirescu, F. Jipa, C. Albu, G. Cojocaru, R. Ungureanu, Dumitrache, S. Simion, C. Luculescu
8.	High Intensity Multiple THz Sources and its Applications/ invitat	ISCP, Orastie, Romania, 23 – 26 September 2014.	T. Dascalu, G. Cojocaru, R. Ungureanu, R. Banici, O. Grigore, M.P. Dinca
9.	Transient collisionally excited x-ray lasers pumped with one long and two short pulses/ prezentare orală	ICXRL, Fort Collins, Colorado, U.S.A. 26-30 May, 2014,	D. Ursescu, G. Cojocaru, R. Ungureanu, R. Banici, L. Ionel, S. Simion, R. Dabu et al.
10.	Seeded operation of a Ne – like Titanium soft x- ray laser: beam profile, density gradient evolution, and path towards higher density gain region/ prezentare orală	ICXRL, Fort Collins, Colorado, U.S.A. 26-30 May, 2014,	O.Guilbaud, S.Kazamias, K.Cassou, O.Delmas, J. Demailly, O.Neveu, D.Ros, E.Baynard, M.Pittman, M. Shazad, A.Rossal, G.J. Tallents, A. LeMarec, A. Klisnick, L.Lu, Zeitoun, G.Cojocaru, R.Ungureanu R.A.Banici, D.Ursescu

11.	Multiple High-Intensity THz Generation by Consecutive Two-Color Filaments in Air/ prezentare orală	Frontiers in Optics. JW Marriott Tucson Starr Pass Resort in Tucson, Arizona, USA.19-23 October 2014	Traian Dascalu; Razvan Ungureanu; Gabriel Cojocaru; Oana Grigore; Romeo Banici; Mihai Dinca.
12.	Multiple THz Pulses Generated by Optical Filamentation/ prezentare orală	The 14 th International Balkan Workshop on Applied Physics, Constanta, Romania, 2-4 July, 2014.	T. Dascalu, O. Grigore, M. Dinca, N. Pavel, C. Cojocaru, R. Ungureanu, and R. Banici.
13.	Numerical analysis of spatial distortions effect in ultrashort pulse laser nanopatterning/ poster	International Conference on Nanosciences & Nanotechnologies (NN14), Thessaloniki, Greece, 8-11 July, 2014.	Laura Emilia Ionel
14.	Control parameters of the Laser Induced Periodic Surface Structures/ poster	International Conference on Nanosciences & Nanotechnologies (NN14), Thessaloniki, Greece, 8-11 July, 2014.	M. ZAMFIRESCU, C. ALBU, I. DUMITRACHE, S.SIMION, C. LUCULESCU
15.	Ultrafast Laser Nanostructuring on Large Surfaces/ invitata	The 14 th International Balkan Workshop on Applied Physics and Materials Science, IBWAP, Constanta, Romania, 2-4 July 2014,	M. ZAMFIRESCU, C. ALBU, G. COJOCARU, S. SANDEL, C. LUCULESCU
16.	Dynamics of laser irradiated surfaces at picoseconds time scale/ invitata	International Conference "MODERN LASER APPLICATIONS" INDLAS, Bran, Romania, 20-24 May, 2014.	M. Zamfirescu, I. Dumitrache, S. Simion,
17.	Advanced workshop in solar energy conversion and nanophysics, International Colloquium 'Physics of Materials' - PM-4, November 13-14, 2014, UPB-Bucharest/ prezentare orală	International Colloquium 'Physics of Materials' - PM-4, November 13-14, 2014, UPB-Bucharest	M. Zamfirescu, I. Dumitrache, F. Jipa, C. Albu, G. Cojocaru, R. Ungureanu, C. Luculescu.
18.	Large area surface nanopatterning by ultrafast laser pulses/prezentare orală	Advanced workshop in solar energy conversion and nanophysics, Magurele, Romania September 1-3, 2014,	M. Zamfirescu, I. Dumitrache, F. Jipa, G. Cojocaru, R. Ungureanu, C. Luculescu.
19.	Synchronization issues of high power ultra short pulse lasers/ prezentare orală	ISCP, Orastie, Romania, 23 – 26 September 2014.	Simion S: Dabu R; Ursescu D.
20.	Micro-/nano-engineering surfaces using laser based methods for directing cell behavior at the cell-biomaterial interface in vitro/ poster	ISCP, Orastie, Romania, 23 – 26 September 2014.	L. Rusen, V. Dinca, A. Palla Papavlu, M. Filipescu, L. Sima, A. Roseanu, M. Dinescu
21.	Laser irradiation interaction with droplets that contain medicines,	Smart and green interface - Cost Action MP 1106 and 5 th International Conference on "Heat transfer and fluid flow in microscale", 22-24 April 2014, Marseille, France	M.L. Pascu, T. Alexandru, M. Boni, A. Dinache, V. Nastasa, I. Andrei

22.	Resonant effects on medicine solutions irradiated at two different UV laser beams: droplets and bulk experiments,.	INDLAS 2014, 19-23 May 2014, Bran, Romania	I.R. Andrei, T. Alexandru, M. Boni, A. Dinache, V. Nastasa, M.L. Pascu,
23.	Resonant effects on medicine solutions irradiated at two different UV laser beams: droplets and bulk experiments	INDLAS 2014, 19-23 May 2014, Bran, Romania.	I.R. Andrei, T. Alexandru, M. Boni, A. Dinache, V. Nastasa, M.L. Pascu,
24.	Spectroscopic evidence of antibiotic solutions modifications at interaction with laser radiation	INDLAS 2014, 19-23 May 2014, Bran, Romania.	A. Dinache, M. Boni, I. Andrei, T. Alexandru, V. Nastasa, M. L. Pascu,
25.	Phenothiazines solutions exposed to laser radiation in interaction with special surfaces, in view of biomedical applications	INDLAS 2014, 19-23 May 2014, Bran, Romania.	A. Simon, T. Alexandru, M. Boni, V. Damian, V. Dutschik, M.L. Pascu,
26.	Contributions to medical applications of lasers	2014, Biophotonics Summer School, University of Illinois at Urbana-Champaign, 19 – 30 May 2014, Urbana, USA.	V. Nastasa, M. Boni, T. Alexandru, A. Stoicu, A. Simon, A. Dinache, A. Smarandache, I. R. Andrei, A. Staicu, M. L. Pascu,
27.	Mechanisms and photoproducts involved in foam production starting from Vancomycin solutions exposed to laser radiation,	20th International Symposium on Surfactants in Solution, 22-27 June 2014, Coimbra, Portugal.	A. Dinache, M. Boni, V. Nastasa, T. Alexandru, A. Stoicu, I. Andrei, E. Radu, M. L. Pascu,
28.	Photodissociation study of non-antibiotic drug by UV laser irradiation,	International Student Conference on Photonics (ISCP 2014), 23-26 September 2014, Orastie, Romania.	T. Alexandru, A. Staicu, A. Pascu, V. Nastasa, E. Radu, A. Stoicu, M. L. Pascu,
29.	Singlet oxygen interaction with some olefin as potential linkers in targeted drug delivery	International Student Conference on Photonics (ISCP 2014), 23-26 September 2014, Orastie, Romania.	T. Alexandru, A. Staicu, A. Pascu, A. Dinache, M. Enescu, A. Khatyr, M. L. Pascu,
30.	Antimicrobial activity of irradiated CPZ against Gram-Negative and Gram-Positive bacteria	International Student Conference on Photonics (ISCP 2014), 23-26 September 2014, Orastie, Romania.	T. Alexandru, A. Armada, V. Nastasa, M. Boni, A. Dinache, L. Amaral, M. L. Pascu,
31.	Time stability studies of Chlorpromazine and Thioridazine exposed to 266 nm laser beam	International Student Conference on Photonics (ISCP 2014), 23-26 September 2014, Orastie, Romania.	A. Simon, T. Alexandru, A. Smarandache, A. Dinache, I.R. Andrei, M.L. Pascu,
32.	UV treatment of water for drug pollutants removal	International Student Conference on Photonics (ISCP 2014), 23-26 September 2014, Orastie, Romania.	V. Nastasa, A. Smarandache, T. Alexandru, A. Staicu, Z. Saponjic, M.L. Pascu,
33.	Characterization of laser radiation interaction with liquid droplets and bulk that contain solution of chlorpromazine in water	International Student Conference on Photonics (ISCP 2014), 23-26 September 2014, Orastie, Romania.	I. R. Andrei, T. Alexandru, M. Boni, A. Dinache, V. Nastasa, M.L. Pascu,

34.	Chlorpromazine Vibrational Spectroscopy - A Computational Study	International Student Conference on Photonics (ISCP 2014), 23-26 September 2014, Orastie, Romania.	A. Stoicu, T. Alexandru, E. Radu, V. Nastasa, M.L. Pascu,
35.	Interaction of solutions containing phenothiazines exposed to laser radiation with materials surfaces, in view of biomedical applications	International Student Conference on Photonics (ISCP 2014), 23-26 September 2014, Orastie, Romania.	A. Simon, T. Alexandru, M. Boni, V. Damian, V. Dutschk, M.L. Pascu,
36.	Spectral evidence of Vancomycin's modification under exposure to laser radiation,	International Student Conference on Photonics (ISCP 2014), 23-26 September 2014, Orastie, Romania.	A. Dinache, M. Boni, A. Staicu, T. Alexandru, E. Radu, V. Nastasa, A. Stoicu, I. Andrei, V. Damian, M. Ferrari, M.L. Pascu,
37.	Photodynamic studies of some molecules of interest in drug carrier systems,	International Student Conference on Photonics (ISCP 2014), 23-26 September 2014, Orastie, Romania.	A. Staicu, A. Dinache, T. Alexandru, A. Pascu, A. Smarandache, V. Nastasa, M. Boni, A. Simon, F. Sima, M. Enescu, M. L. Pascu
38.	Chlorpromazine Vibrational Spectroscopy – A Computational Study,	Introduction to Gaussian: Theory and Practice, Ulm University, Ulm, Germany, 28 July– 1 August 2014,	A. Stoicu, T. Alexandru, E. Radu, V. Nastasa, M.L. Pascu,
39.	Study of the dynamic effects at the laser beam - pendant droplet interaction,	INDLAS 2014, 19-23 May 2014, Bran, Romania	M. Boni, I.R. Andrei, V. Nastasa, A. Staicu, M.L. Pascu,
40.	Lasing emission by pending micro-droplets that contain laser dye	International Student Conference on Photonics (ISCP 2014), 23-26 September 2014, Orastie, Romania.	M. Boni, I.R. Andrei, A. Staicu, M.L. Pascu
41.	Enhance fluorescence in micro droplets containing emulsions	20th International Symposium on Surfactants in Solution, 22-27 June 2014, Coimbra, Portugal	M. Boni, A. Dinache, V. Nastasa, I. R. Andrei, A. Staicu, M. L. Pascu,
42.	Foam stability study in view of endovenous sclerosant therapy	INDLAS 2014, 19-23 May 2014, Bran, Romania	V. Nastasa, K. Samaras, T. Karapantsios, M.L. Pascu,
43.	Study of colloidal systems properties in view of their use in medical treatments	International Student Conference on Photonics (ISCP2014), 23-26 September 2014, Orastie, Romania.	V. Nastasa, A.Smarandache, K. Samaras, T. D. Karapantsios, M.L. Pascu,
44.	Spectroscopic Studies Of Unexplored Imidazolidines In View Of Their Dna Binding Affinity Characterization	INDLAS 2014, 19-23 May 2014, Bran, Romania	A.Smarandache,V.Nastasa, J.Handzlik,Kiec.Kononowicz, G.G. James, M. L. Pascu,
45.	Characterization and DNA binding studies of new hydantoin derivatives by electronic spectroscopy	5th International Student Conference on Photonics (ISCP), Orastie, Romania, 23-26 September 2014.	A. Smarandache, V. Nastasa, J. Handzlik, K. Kiec-Kononowicz, J. G. Grote, M.-L. Pascu,

46.	Spectroscopic and DFT studies of a new hydantoin derivative molecular structure	5th International Student Conference on Photonics (ISCP), Orastie, Romania, 23-26 September 2014	A. Smarandache, V. Nastasa, A. Stoicu, J. Handzlik, K. Kiec-Kononowicz, M.L. Pascu,
47.	Spectroscopic Study And Molecular Structure Modeling Of New Hydantoin Derivatives	Annual Scientific Conference (Bucharest University Faculty of Physics 2014 Meeting), 20 June 2014, Bucharest, Romania.	A. Smarandache, V. Nastasa, A. Stoicu, J. Handzlik, K. Kiec-Kononowicz, M. L. Pascu,
48.	Stability studies of quinazoline derivatives designed as EPI's	5th edition of International Student Conference on Photonics (ISCP 2014), Orastie, 23-26 September 2014.	A. Dinache, V. Nastasa, S. Alibert, J. M. Pagès, M. L. Pascu,
49.	Enhanced fluorescence in pendant micro-droplets that contain emulsions	5th edition of International Student Conference on Photonics (ISCP 2014), Orastie, 23-26 September 2014, oral presentation.	M. Boni, V. Nastasa, I.R. Andrei, A. Staicu, M.L. Pascu,
50.	Spectroscopic investigations of new anticancer drugs and their behavior at the incidence with laser radiation,	SPEC 2014 Shedding New Light on Disease, Krakow, Poland, 17-22 August 2014.	A. Smarandache, A. Dinache, A. Pascu, I. Andrei, J. Handzlik, K. Kiec-Kononowicz, A. Staicu, M.L. Pascu,
51.	Analogy of Vancomycin experimental and model spectra	5th edition of International Student Conference on Photonics (ISCP 2014), Orastie, 23-26 September 2014.	A. Stoicu, A. Dinache, M.L. Pascu
52.	Optical studies of Vancomycin modification during foam generation at interaction with laser beams	COST Actions MP1106 and CM1101 Joint Training School Particles at Liquid Interfaces: Fundamentals and Applications, Bonassola (Italy), 2nd – 5th April 2014	M. Boni, A. Dinache, V. Nastasa, M. L. Pascu,.
53.	Tunable lasers with pendant micro-droplets active media	The 2014 Scientific Communications Session of Physics Faculty, University of Bucharest, Bucharest, Romania, 20 June 2014.	M. Boni, I.R. Andrei, A. Staicu, M.L. Pascu,
54.	Interaction of laser beams with pendant droplets containing laser dyes	Smart and Green Interfaces Conference, Marseille, France, 22-24 April, 2014.	M. Boni, I.R. Andrei; V. Nastasa, M.L. Pascu,
55.	Polidocanol foam study in view of varicose vein treatment	COST Actions MP1106 and CM1101 Joint Training School Particles at Liquid Interfaces: Fundamentals and Applications, Bonassola (Italy), 2nd – 5th April 2014.	V. Nastasa, K. Samaras, M. Trelles, J. Moreno-Moraga, T. Karapantsios, M.L. Pascu,
56.	Chlorpromazine Vibrational Spectroscopy - A Computational Study	International Student Conference on Photonics (ISCP 2014), 23-26.09.2014, Orastie, Romania.	A. Stoicu, T. Alexandru, E. Radu, V. Nastasa, M.L. Pascu,
57.	Modification of surface properties of Vancomycin following exposure to UV laser beam	International Student Conference on Photonics (ISCP 2014), 23-26.09.2014, Orastie, Romania	M.L. Pascu, M. Ferrari

58.	Application of laser techniques in the treatment of varicose veins with Polidocanol foam	Instituto medico Vilafortuny, Tarragona, Barcelona, Spain, 18 February 2014	M.L. Pascu
59.	Laser beams interactions with single pendant droplets	Advances in Optofluidics: Integration of Optical Control and Photonics with Microfluidics, 23-26 april Dublin.	M.L. Pascu
60.	New data about the use of Polidocanol foams in the treatment of varicose veins assisted by Nd:YAG lasers	Instituto Medico Madrid, Spain, 21 February 2014	M.L. Pascu
61.	The use of nonantibiotics modified by exposure to laser radiation to fight multiple drug resistance	INDLAS 2014, 19-23 May 2014, Bran, Romania.	M.L. Pascu
62.	Simulation of the ionization dynamics of aluminum irradiated by intense short-pulse lasers/ oral	17 th International Congress on Plasma Physics ICPP 2014, IST, Lisbon, Portugal, 15-19 septembrie 2014	V. Stancalie, V. Pais, A. Mihailescu, C. Iorga
63.	Photoionization dynamics of the Rydberg states of C ²⁺ ion/ poster	6 th Conference on Elementary Processes in Atomic Systems CEPAS 2014, Bratislava, Slovakia, 9-12 iulie 2014	V. Stancalie
64.	Characteristics of photoionization and high harmonics generated in the low density plasmas using ultrashort and intense fs laser pulses/ poster	4 th International Conference "Modern Laser Applications", INDLAS 2014, Bran, Romania, 19-23 mai 2014	A. Mihailescu, C. Iorga., V. Stancalie
65.	"Testing fruits quality by laser photoacoustic spectroscopy"/prezentare orală	3rd International Conference on Health Science and Biomedical Systems (HSBS14), Florence, Italy, November 22-24, 2014	S. Banita, M. Patachia, D. C. Dumitras, C. Achim, M. Bercu, A. M. Bratu, C. Matei
66.	Multimodality Optical Imaging System for Intraoperative Detection of Tumor Positive Margins	3rd International Conference on Health Science and Biomedical Systems (HSBS14), Florence, Italy, November 22-24, 2014	M. Patachia, S. Banita, C. Matei, , C. Achim, M. Bercu, D.C. Dumitras
67.	Non-invasive CO2 laser-photoacoustic study of exhaled breath produced by active smoking with electronic vs. traditional cigarettes"/prezentare orală	International Conferences on Laser Applications in Life Sciences (LALS 2014), Ulm, Germany: 29 iunie- 2 iulie 2014	C. Achim, S. Banita, M. Patachia, D. C. Dumitras, C. Achim, M. Bercu, A. M. Bratu, C. Matei
68.	"Human breath biomarker for clinical diagnosis by photoacoustic spectroscopy technique"/prezentare orală	New Trends on Sensing-Monitoring-Telediagnosis for Life Sciences, Brasov, Romania, (July 24-26, 2014), University of Brasov, Romania	C. Popa, S. Banita, M. Patachia C. Matei, A.M. Bratu, M. Petrus, D.C. Dumitras,
69.	Spectroscopy for breath biomarkers analysis at young population with mental disorders"/prezentare orală	The 5th edition of International Student Conference on Photonics (ISCP 2014), 23th – 26th September 2014, Orastie, Hunedoara	C. Achim, A.M. Bratu, M. Bercu, S. Banita, M. Patachia, C. Matei, D.C. Dumitras,

70.	Breath biomarkers can help clinicians to assess the role of oxidative attack in young population with mental disorders"/prezentare orală	The annual International Conference on Advanced Laser Technologies (ALT14), 6 - 10 October 2014, Cassis, France.	C. Achim, S. Banita, M. Patachia, D. C. Dumitras, M. Bercu, A. M. Bratu, C. Matei
71.	CO2 laser photoacoustic spectroscopy in new applicative results"/prezentare orală	The 5th edition of International Student Conference on Photonics (ISCP 2014), 23th – 26th September 2014, Orastie, Hunedoara (Romania). (I)	D.C. Dumitras, S. Banita, M. Bercu, A.M. Bratu, I. Ivascu, C. Matei, M. Patachia, C. Popa
72.	Spectroscopic analysis of surgical smoke produced in vitro by laser vaporization of animal tissue in a closed gaseous environment,"/ prezentare orală	New Trend on Sensing-Monitoring-Telediagnosis for Life Sciences (NT SMT-LS 2014), Brasov, Romania July 24-26, 2014	M. Petrus, A.M. Bratu, C. Popa, M.Patachia, C. Matei, S. Banita, D.C. Dumitras
73.	Field-orientation dependent magnetization relaxation in multilayer nanoparticle assemblies"/prezentare orală	22nd International Conference on nanocomposites/nanoengineering ICCE-22, St. Julian, Malta, 13.07-19.07.2014,	Miu, Dana; Jinga, S.I.; Vasile, B; Miu, L
74.	Ge-based addition to MgB2 superconductors obtained by ex-situ spark plasma sintering technique"/poster	4th International conference on superconductivity and magnetism ICSM 2014, Antalya, Turcia, 27.04-03.05.2014,	Batalu, D; Aldica, G.; Burdusel, M; Popa, S; Enculescu, M; Pasuk, I; Miu, Dana; Badica, P
75.	Design and Properties of Quartz Love Wave Surface Acoustic Waves Sensors"/ prezentare orală	ATOM-N 2014, Constanta, Romania, 21-24 august, 2014	C. Viespe, C. Grigoriu,
76.	Bioaccumulation of Si/SiO2 QDs and the oxidative stress biomarkers assesment in the kidney tissue of <i>Carrasius auratus gibelio</i> "/poster	38th Congress of The Federation of European Biochemical Societies (FEBS), 6-11 July 2013, Saint, Petersburg, Russia FEBS Journal, vol. 280, 217-218 (2013), Accession Number: WOS:000325919201176; ISSN: 1742-464X /SW03.S13-33	S.N. Petrache, L. Stanca, A.I. Serban, A.C. Staicu, C. Sima, O. Zarnescu, M. Costache, A. Dinischiotu;
77.	Centre pour les technologies avancees laser" /poster	Realizari de varf ale cercetarii romanesti, Versailles, Franta, 9 iulie 2014,	C. Grigoriu
78.	1PW laser system status and laser developments roadmap for ELI-NP"/	INDLAS 2014, Bran, Brasov, Romania May 20-25, 2014	Ioan Dancus, Daniel Ursescu, Liviu Neagu, Mihail Cernaianu, Theodor Asavei, Aurelian Marcu, Florin Jipa, Ionut Nicolae, Gabriel Cojocaru, Romeo Banici, Razvan Ungureanu, Razvan Dabu, Catalin Ticos, Mihai Ganciu, Constantin Grigoriu, Ion Morjan, Sydney Gales, Victor Zamfir

79.	Surface Diffusion in Pulsed Laser Deposition / Vapor-Liquid-Solid ZnO Nanowire Grow"/poster	MRS-Spring 2014, San Francisco, California, SUA, 21-25 May, 2014	A.Marcu, F.Stokker, I.Nicolae, R.R.Zamani, J. R. Morante, C.P.Lungu, Constantin Grigoriu, J.Arbiol
80.	CETAL-The PW laser facility"/ lectie plenara	14 th International Balkan Workshop on Applied Physics, 2-4 iulie 2014, Constanta Romania	C. Grigoriu
81.	The influence of diamino propane in functional groups generation of iron oxide nanoparticles synthesized by laser pyrolysis /poster	MODERN LASER APPLICATIONS, Bran, Romania, 19-23 May, 2014	Badoi A; Dumitrache F; Vasile E; Luculescu C; Gavrilă L; Mihailescu N; Fleaca C; Morjan I; Ciuca I
82.	Sulfur-containing Fe@C nanocomposites using one-step laser pyrolysis technique /poster	MODERN LASER APPLICATIONS, Bran, Romania, 19-23 May 2014	Fleaca C; Morjan I; Niculescu A; Badoi A; Vekas L; Luculescu C; Vasile E
83.	Processing of the precursors in SiC synthesis by laser pyrolysis/poster	E-MRS Spring Meeting, Congress Center - Lille, France, May 26-30, 2014	Gavrilă L; Dutu E; Badoi A; Popovici E; Morjan
84.	One-step laser pyrolysis synthesis of TiO ₂ nanoparticles embedded in carbon-silica shells/matrix /poster	E-MRS Spring Meeting, Congress Center - Lille, France, May 26-30, 2014	Fleaca C; Scarisoreanu M; Morjan I; Luculescu C; Niculescu A; Dumitrache F; Badoi A; Vasile E; Danciu V; Popa M
85.	High magnetic Fe ₂ O ₃ nanoparticles synthesized by laser pyrolysis used for biological and heat transfer applications /poster	E-MRS Spring Meeting, Congress Center - Lille, France, May 26-30, 2014	Dumitrache F; Morjan I; Fleaca C; Luculescu C; Niculescu A; Badoi A; Vekas L; Marinica O; Manda G; Pop S; Huminic G; Huminic A
86.	Synthesis and photocatalytic properties of novel multifunctional TiO ₂ -based magnetic nanocomposite /poster	E-MRS Spring Meeting, Lille, France, May 26-30, 2014	Scarisoreanu M; Morjan I; Fleaca C; Morjan IP; Niculescu A; Dutu E; Badoi A; Birjega R; Luculescu C; Vasile E; Danciu V; Filoti G
87.	F doped Tin oxide nanoparticles synthesized by laser pyrolysis: the structural and optical properties /poster	5th Int. Symp. on Transparent Cond. Mater, Platanias-Chania, Crete, Greece, Oct. 12-17, 2014	E. Dutu, F. Dumitrache, C. Fleaca, I. Morjan, C. Luculescu
88.	Rare earth (Ce, Eu, La)- doped SnO ₂ nanoparticles-MWCNTs thin film composites deposited by MAPLE technique /poster	E-MRS Fall Meeting, Warsaw, Poland, September 15-18, 2014	A.M. Niculescu, C.T. Fleaca, M. Dumitru, C. Luculescu, M. Filipescu, C. Nicolicescu, E. Vasile, I. Morjan, M. Dinescu
89.	Metallic tin-based nanoparticles synthesis by laser pyrolysis: parametric studies focused on the decreasing of the crystallite size /poster	E-MRS Spring Meeting, Lille, France, May 26-30, 2014	E. Dutu, F. Dumitrache, C. T. Fleaca, I. Morjan, L. Gavrilă-Florescu, I. Sandu, M. Scarisoreanu, I. P. Morjan, C. Luculescu, A. M. Niculescu, E. Vasile

90.	N doped iron-carbon core/shell nanocomposites synthesized by Laser Pyrolysis	MODERN LASER APPLICATIONS" 4th Edition, Bran, Romania; 19-23 May 2014	F. Dumitrache, I. Morjan, O. Marinica, A. Niculescu, C. Luculescu, E. Vasile
91.	Tin oxide thin films deposited by MAPLE from nanoparticles obtained by laser pyrolysis /poster	MODERN LASER APPLICATIONS" 4th Edition, Bran, Romania, 19-23 May 2014	A. M. Niculescu, M. Dumitru, F. Dumitrache, E. Dutu, R. Birjega, M. Filipescu, C. Luculescu, M. Dinescu, Ion Morjan
92.	Preliminary results of multitarget off-axis CW laser ablation for carbon nanotubes synthesis	E-MRS Spring Meeting, Lille, France, May 26-30, 2014	C.R. Luculescu, I. Morjan, E. Popovici, A.G. Ilie
93.	Hydroxyapatite thin films obtained by PLD and MAPLE: comparative study of physical, chemical and biological properties",	Poster presentation (JP.VIII 33) at Symposium J "Laser interaction with advanced materials: fundamentals and applications" of E-MRS Spring Meeting Lille, France – May 26 – 30, 2014	G. Popescu-Pelin, F. Sima, G. Socol, L. Sima, C. Ristoscu, I. N. Mihailescu,
94.	Transfer by pulsed laser deposition of biological hydroxyapatite thin films doped with MgF ₂ , MgO and Ti	"", Poster presentation (JP.VIII 50) at Symposium J "Laser interaction with advanced materials: fundamentals and applications" of E-MRS Spring Meeting Lille, France – May 26 – 30, 2014	N. Mihailescu, G. E. Stan, L. Duta, F. N. Oktar, M. Sopronyi, C. Luculescu, M. C. Chifiriuc, C. Ristoscu, I. N. Mihailescu,
95.	Phenomenological model of growth of TiO ₂ films for biomedicine	Plenary lecture at 7th edition of the International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies" ATOM-N 2014, Constanta, Romania, August 21 – 24, 2014	T. Rosca, S. Bazgan, G. Dorcioman, C. Ristoscu, G. Popescu-Pelin, N. Enaki, I. N. Mihailescu,
96.	Matrix-Assisted Pulsed Laser Evaporation: Application To Biopolymer Thin Film Assemblies	Invited lecture (S1 L18) at IBWAP 2014, Constanta, July 2-4, 2014	C. Ristoscu, F. Sima, E. Axente, L. E. Sima, M. Erginer, M. S. Eroglu, N. Mihailescu, S. M. Petrescu, E. Toksoy Oner, I. N. Mihailescu,
97.	"Combinatorial Matrix-Assisted Pulsed Laser Evaporation: application to biopolymer thin film assemblies signalling to human osteoblast	Oral presentation (We-O-11) at ICPEPA 2014, Matsue, Japan, September 30 – October 3, 2014	C. Ristoscu, F. Sima, E. Axente, L. E. Sima, M. Erginer, M. S. Eroglu, N. Mihailescu, S. M. Petrescu, E. Toksoy Oner, I. N. Mihailescu,
98.	Femtosecond laser modification of double layer coatings	Poster presentation (Tu-P-16) at ICPEPA 2014, Matsue, Japan, September 30 – October 3, 2014	C. Ristoscu, B. Gakovic, C. Albu, M. Zamfirescu, B. Radak, M. Trtica, S. Petrovic, I. N. Mihailescu,

99.	Soft laser transfer of organic / inorganic composites for biocide, drug delivery, biomimetic or biosensing applications	Oral presentation (We-O-12) at ICEPA 2014, Matsue, Japan, September 30 – October 3, 2014	I. N. Mihailescu, C. Ristoscu, F. Sima,
100.	Pulsed Laser Deposition Of Thin Oxide Films For Applications To Chemical Sensing And Biological Pollution	Invited lecture at Workshop on "Transition Metal Oxide Thin Films-Functional Layers in 'Smart Windows' and Water Splitting Devices: Technology and Optoelectronic Properties", 4-6 September, 2014, Varna, Bulgaria	Ion N. Mihailescu, Carmen Ristoscu,
101.	Laser Synthesis Of Nanometric Iron Oxide Films By Pulsed Laser Deposition	Poster presentation at Workshop on "Transition Metal Oxide Thin Films-Functional Layers in 'Smart Windows' and Water Splitting Devices: Technology and Optoelectronic Properties", 4-6 September, 2014, Varna, Bulgaria	N. Mihailescu, C. Ristoscu, G. Socol, N. Stefan, M. Socol, S.A. Mulenko, N.T. Gorbachuk, I.N. Mihailescu,
102.	"Dopping of calcium phosphate with ZrO ₂ by pulsed laser transfer: composition, structure, morphology and potential applications	Poster presentation at Workshop on "Transition Metal Oxide Thin Films-Functional Layers in 'Smart Windows' and Water Splitting Devices: Technology and Optoelectronic Properties", 4-6 September, 2014, Varna, Bulgaria	Mihai Sopronyi, C. Ristoscu, Ion N. Mihailescu, E. Palcevskis, A. Dindune,
103.	"Soft pulsed laser technologies for the transfer and assembling of nanostructured thin films	Invited lecture at 18th International School on Condensed Matter Physics, September 1st - September 6th, 2014, St. St. Constantine & Helena, Varna, Bulgaria	Ion N. Mihailescu, Carmen Ristoscu,
104.	Organic and/or inorganic nanostructured layers for applications in biocide, drug delivery, biomimetic or biosensing coatings	Invited lecture at 12th IUVESTA School on Lasers in Materials Science (SLIMS), Laser Engineering of Surfaces and Coatings, Isola di San Servolo, Venice, Italy, 13th-20th July 2014	Ion N. Mihailescu, Carmen Ristoscu,
105.	"The basics of laser ablation mechanisms: the etching effect and related processes. Applications in biology and medicine",	Invited lecture at "Lasers in Medicine and Life Sciences (LAMELIS) 2014", Advanced Summer School for Students in Medicine and Physics, Szeged, Hungary, July 14 – 25, 2014	Ion N. Mihailescu, Carmen Ristoscu,
106.	Advanced pulsed laser technologies for coating of low price stainless steel implants with bioglasses and poly (methyl-methacrylate)	Oral presentation (16/09/2014 - 16h40 - session E – ref. 10) at symposium E : Biomimetics and regenerative medicine of the E-MRS 2014 Fall Meeting, held at the Central Campus of Warsaw University of Technology (Poland) from September 15 to 19, 2014	I. Negut, G. Popescu – Pelin, C. Ristoscu, L. Floroian, I. N. Mihailescu,

107.	Progress in low price stainless steel implants coated with bioglasses and poly (methyl - methacrylate) by advanced pulsed technologies	Poster presentation at NATO – ASI: Nanoscience Advances in CBRN Agents Detection, Information and Energy Security Sozopol, Bulgaria, May 29 – June 6, 2014	I. Negut, G. Popescu - Pelin, C. Ristoscu, L. Floroian, I. N. Mihailescu,
108.	Nanostructures by soft pulsed laser techniques for applications in drug delivery, biomimetism or biosensing	Invited lecture (I.09) at 5th International Student Conference on Photonics, Orastie, Hunedoara, Romania, September 22-26, 2014	Ion N. Mihailescu, Carmen Ristoscu, Irina Negut,
109.	Pure and doped hydroxyapatite thin films synthesized by pulsed laser deposition for metal implant coatings	Oral presentation (O.10) at 5th International Student Conference on Photonics, Orastie, Hunedoara, Romania, September 22-26, 2014	A. Visan, S. Erakovic, A. Jankovic, C. Ristoscu, L. Duta, N. Mihailescu (Serban), G.E. Stan, M. Socol, O. Iordache, I. Dumitrescu, C.R. Luculescu, I.N. Mihailescu, Dj. Janackovic, V. Miskovic-Stankovic,
110.	Biopolymer compositional gradient thin film assemblies synthesized by Combinatorial MAPLE: physico-chemical and in-vitro cell response studies	Poster presentation (P.18) at 5th International Student Conference on Photonics, Orastie, Hunedoara, Romania, September 22-26, 2014	N. Mihailescu (Serban), F. Sima, E. Axente, L. E. Sima, M. Erginer, M. S. Eroglu, C. Ristoscu, S. M. Petrescu, E. Toksoy Oner, I. N. Mihailescu,
111.	Carbon thin films doped with Ag and Si for biomedical applications	Poster presentation (P.20) at 5th International Student Conference on Photonics, Orastie, Hunedoara, Romania, September 22-26, 2014	I. Negut, C. Ristoscu, G. Stan, C. Chifiriuc, N. Mihailescu, G. Socol, I. N. Mihailescu,
112.	Hydroxyapatite thin films obtained by PLD and MAPLE activated by a top fibronectin layer: comparative study of physical, chemical and biological properties	Poster presentation (P.32) at 5th International Student Conference on Photonics, Orastie, Hunedoara, Romania, September 22-26, 2014	G. Popescu-Pelin, F. Sima, G. Socol, C.N. Mihailescu, L. Sima, M. Socol, C. Luculescu, C. Ristoscu, I. N. Mihailescu,
113.	Carbon layers doped with Ag and Si for applications in biomedicine	prezentare poster la The 4th International Colloquium “Physics of Materials” (PM-4), November 13-14, 2014, Bucharest, Romania	I. Negut, C. Ristoscu, G. Stan, C. Chifiriuc, G. Socol, N. Mihailescu (Serban), G. Popescu-Pelin, C.L. Hapenciuc, I. N. Mihailescu,
114.	Fabrication and characterizations of pure and doped hydroxyapatite coatings for medical applications	International Colloquium “Physics of Materials”, November 13 – 14, 2014, Bucuresti, Poster, November 14, 2014	A. Visan, S. Erakovic, A. Jankovic, C. Ristoscu, L. Duta, N. Mihailescu (Serban), G.E. Stan, M. Socol, O. Iordache, I. Dumitrescu, C.R. Luculescu, I.N. Mihailescu, Dj. Janackovic, V. Miskovic-Stankovic,

115.	Composite thin films with PMMA and bioglasses for implant coating	International Colloquium "Physics of Materials", November 13 – 14, 2014, Bucuresti, Poster, November 14, 2014	I. Negut, G. Popescu – Pelin, C. Ristoscu, L. Floroian, I. N. Mihailescu,
116.	Carbon layers doped with Ag and Si for applications in biomedicine	Poster presentation at 5th International Student Conference on Photonics, Orastie, Hunedoara, Romania, September 22-26, 2014	C. L. Hapenciuc, Borca-Tasciuc, G. Ramanath, I. Negut, I. N. Mihailescu;
117.	Comparative study on the deposition of polymeric coatings based on PCL/PLGA blends	E-MRS, Lille, France, 27-29 May 2014, Symposium J, JP8. VIII.	G. Popescu-Pelin, E. Axente, F. Sima, I. Iordache, C. Nita, A. Visan, G. Dorcioman, I. Zgura, O.L. Rasoaga, C.S. Breazu, A. Stanculescu, G. Socol, I.N. Mihailescu
118.	Deposition and characterization of calcium phosphates/poly(3-hydroxybutyrate-co-3-hydroxyvalerate) biocomposite coatings	E-MRS, Lille, France, 27-29 May 2014, Symposium J, JP40. VIII.	G. Socol, V. Grumezescu, C. Nita, D. Dorcioman, N. Stefan, M. Miroiu, I. Zgura, M. Socol, A. Visan, G. Popescu-Pelin, R. Cristescu, O. Rasoga, C. S. Breazu, A. Stanculescu
119.	Deposition and characterization of polyethylene glycol/poly(3-hydroxybutyrate-co-3-hydroxyvalerate) blends	E-MRS, Lille, France, 27-29 May 2014, Symposium J, JP9. VIII.	M. Sopronyi, C. Nita, V. Grumezescu, O.L. Rasoga, N. Stefan, C.S. Brezu, M. Socol, I. Zgura, A. Visan, G. Popescu-Pelin, A. Stanculescu, I.N. Mihailescu, G. Socol
120.	Deposition of polymeric coatings based on PCL/PLGA blends: a comparative study	IBWAP, Constanta, Romania, 2-4 July 2014, S2 P14	G. Popescu-Pelin, E. Axente, F. Sima, I. Iordache, C. Nita, A. Visan, I. Zgura, O.L. Rasoaga, C.S. Breazu, A. Stanculescu, G. Socol, I.N. Mihailescu
121.	Optical and electrical properties of complex transition metal oxides grown by combinatorial PLD technique	Poster presentation at Workshop on "Transition Metal Oxide Thin Films-Functional Layers in 'Smart Windows' and Water Splitting Devices: Technology and Optoelectronic Properties", 4-6 September, 2014, Varna, Bulgaria, A3	Gianina Popescu-Pelin, D. Craciun, V. Craciun, G. Socol, N. Stefan, A. C. Galca, N. Becherescu, Ion N. Mihailescu
122.	Deposition of degradable polymeric coatings based on lysozyme embedded into poly(ϵ -caprolactone)/poly(lactic acid-co-glycolic acid) blends: a comparative study	E-MRS, 15-18 September 2014, Warsaw, Poland, E2	G. Popescu-Pelin, E. Axente, F. Sima, I. Iordache, C. Nita, A. Visan, I. Zgura, O.L. Rasoaga, C.S. Breazu, A. Stanculescu, I.N. Mihailescu, G. Socol,

123.	“Polymeric coatings based on poly(ϵ -caprolactone)/poly(lactic acid-co-glycolic acid) deposited by MAPLE and dip-coating techniques: a comparative study” —.	ISCP, 23-26 September 2014, Orastie, Romania, P.22	G. Popescu-Pelin, E. Axente, F. Sima, I. Iordache, C. Nita, A. Visan, I. Zgura, O.L. Rasoaga, C.S. Breazu, A. Stanculescu, G. Socol, I.N. Mihailescu
124.	Transparent conductive oxides grown by combinatorial PLD technique	ISCP, 23-26 September 2014, Orastie, Romania, P.23	G. Popescu-Pelin, D. Craciun, V. Craciun, G. Socol, A. C. Galca, A. Visan, C.R. Luculescu, A. Stanculescu, M. Socol, N. Stefan, E. Axente, L. Duta, C.N. Mihailescu, V. Sava, Ion N. Mihailescu
125.	„A microprobe technique for simultaneously measuring thermal conductivity and Seebeck coefficient of nanostructured thin films”,	NATO-ASI „Nanoscience Advances in CBRN Agents Detection, Information and Energy Security” desfasurat la Sozopol, Bulgaria	Hapenciuc, C. L., Borca-Tasciuc T., Ramanath, G. and Mihailescu I. N.
126.	ZnO and hydrophobin thin coatings on textiles substrates for biomedical applications	INERA Workshop on "Transition Metal Oxide Thin Films-Functional Layers in 'Smart Windows' and Water Splitting Devices: Technology and Optoelectronic Properties" St. Konstantin si Elena, Varna, Bulgaria	A.Visan, A. C. Popescu, G. E. Stan, L. Duta, G. Dorcioman, O. Iordache, I. Dumitrescu, I. Pasuk, I. N. Mihailescu,
127.	Matrix Assisted Pulsed Laser Evaporation vs. Dip Coating techniques for fabrication of biodegradable polymer thin films with medical applications	International Conference"MODERN LASER APPLICATIONS"Fourth Edition, 19-23 Mai, Bran,Romania	A. Visan, M. Miroiu, N. Stefan, C. Nita, G. Dorcioman, I. Zgura, O.L. Rasoaga, C.S. Breazu, A. Stanculescu, R. Cristescu, G. Socol, I.N. Mihailescu;
128.	Biodegradable silk fibroin/poly(sebacic acid) diacetoxyl terminated composite coatings obtained by matrix assisted pulsed laser evaporation	International Conference"MODERN LASER APPLICATIONS"Fourth Edition, 19-23 Mai, Bran,Romania	N. Stefan, F.M. Miroiu, A. Visan, O.L. Rasoga, I. Zgura, A. Stanculescu, G. Socol;
129.	Matrix Assisted Pulsed Laser Evaporation synthesis of biomimetic nanocrystalline apatite coatings with applications in medicine	International Conference"MODERN LASER APPLICATIONS"Fourth Edition, 19-23 Mai, Bran,Romania	Anita Visan D. Grossin, N. Stefan, L. Duta, F. M. Miroiu, M. Sopronyi, F. Miculescu, M. Freche, C. Charvilat, O. Marsan, S. Ciuca, I.N. Mihailescu;
130.	Matrix Assisted Pulsed Laser Evaporation synthesis of biomimetic nanocrystalline apatite coatings for biomedical applications	EMRS 2014, Symposium : J Laser interaction with advanced materials: fundamentals and applications, Lille,France , May 26-30); Prezentare Poster, 27mai,ora 16,cod panou: JP.VIII 5	A. Visan, D. Grossin, N. Stefan, L. Duta, F.M. Miroiu, G.E. Stan, M. Sopronyi, C. Luculescu, M. Freche, O. Marsan, C. Charvilat, S. Ciuca, I.N. Mihailescu;

131.	Fabrication of biodegradable polycaprolactone -polyethylene glycol composite coatings by Matrix Assisted Pulsed Laser Evaporation and Dip Coatings	EMRS 2014, Symposium : J Laser interaction with advanced materials: fundamentals and applications, Lille,France , May 26-30); Prezentare Poster, 27mai,ora 16,cod panou: JP.VIII 4	A. Visan, M. Miroiu, N. Stefan, C. Nita, G. Dorcioman, I. Zgura, O.L. Rasoga, C.S. Breazu, A. Stanculescu, R. Cristescu, G. Socol, I.N. Mihailescu;
132.	Comparative study on the deposition of biodegradable PCL/PLA blend coatings	EMRS 2014, Symposium : J Laser interaction with advanced materials: fundamentals and applications, Lille,France , May 26-30); Prezentare Poster, 27mai,ora 16,cod panou: JP.VIII 37	C.Nita, E. Axente, F. Sima, I. Iordache, R. Cristescu, A. Visan, I. Zgura, O.L. Rasoga, C.S. Breazu, A. Stanculescu, G. Socol;
133.	Biodegradable Silk Fibroin/Poly(3-Hydroxy-Butyric Acid-Co-3-Hydroxy-Valeric Acid) composite coatings obtained by MAPLE and dip-coating methods	EMRS 2014, Symposium : J Laser interaction with advanced materials: fundamentals and applications, Lille,France , May 26-30); Prezentare Poster, 29mai,ora 16JP.XV 39	F.M. Miroiu, N. Stefan, A. Visan, O.L. Rasoga, I. Zgura, C.Nita, A. Stanculescu, G. Dorcioman, R. Cristescu, I. N. Mihailescu, G. Socol;
134.	Influence of the liquid level and duration of the ablation process on the characteristics of nanostructures created by nanosecond laser ablation of Ag in water	EMRS 2014, Symposium : J Laser interaction with advanced materials: fundamentals and applications, Lille,France , May 26-30); Prezentare Poster, 27mai,ora 16	A.S. Nikolov, R.G. Nikov, N.N. Nedyalkov, P. A. Atanasov, M. T. Alexandrov, D Karashanova, N.E.Marinkov,I.Z.Dimitrov, I.I Boevski,A.Visan and I.N Mihailescu;
135.	Microbial Colonization of Biopolymeric thin Films Containing Natural Compounds and Antibiotics Fabricated by Maple	EMRS 2014, Symposium : J Laser interaction with advanced materials: fundamentals and applications, Lille,France , May 26-30); Lectie invitata, 27 Mai, 8 :30	R. Cristescu, G. Dorcioman, C. Popescu, C. Nita, A. Visan, G. Socol, I.N. Mihailescu, D. Mihaiescu, A. Grumezescu, M. Enculescu, C. Chifiriuc, R. J. Narayan, and D. B. Chrisey;
136.	Fabrication of embedded lysozyme into degradable polycaprolactone -polyethylene glycol coatings	E-MRS 2014 FALL MEETING, September 15-19, Warsaw University of Technology, Poland, poster Symposium : E	A. Visan, M. Miroiu, N. Stefan, C. Nita, G. Dorcioman, I. Zgura, O.L. Rasoga, C.S. Breazu, Iuliana Urzica, L. Sima , L.Ivan, A. Stanculescu, R. Cristescu, G. Socol, I.N. Mihailescu;
137.	Embedded lysozyme into degradable polycaprolactone - polyethylene glycol coatings fabricated by Matrix Assisted Pulsed Laser Evaporation and Dip Coating Techniques	ISCP 2014, 23th – 26th September 2014, Orastie, Hunedoara; Prezentare poster	Anita Visan, Marimona Miroiu, Nicolae Stefan, Cristina Nita, Gabriela Dorcioman, Irina Zgura, Oana Rasoga, Carmen Breazu, Iuliana Urzica, Livia Sima, Luminita Ivan, Anca Stanculescu, Rodica Cristescu, Gabriel Socol and Ion N. Mihailescu;

138.	Fabrication of biodegradable silk fibroin - poly(sebacic acid) diacetoxyl terminated composite coatings for local proteins release	ISCP 2014, 23th – 26th September 2014, Orastie, Hunedoara; Prezentare poster	N. Stefan, F. Miroiu, A. Visan, C. Nita, I. Zgura, O. Rasoga, R. Cristescu, G. Socol;
139.	Silk Fibroin – poly(3-hydroxybutyric-acid-co-3-hydroxyvaleric-acid composite biodegradable polymer coatings for biomedical applications	ISCP 2014, 23th – 26th September 2014, Orastie, Hunedoara; Prezentare poster	F. Miroiu, N. Stefan, A. Visan, C. Nita, R. Cristescu, I. Zgura, O. Rasoga, L. Sima, I. N. Mihailescu, G. Socol;
140.	Comparative study of polycaprolactone and polylactic acid coatings-Physico, chemical and compositional investigations	ISCP 2014, 23th – 26th September 2014, Orastie, Hunedoara; Prezentare poster	C. Nita, A. Visan, E. Axente, R. Cristescu, N. Stefan, M. Miroiu, G. Dorcioman, I. Zgura, O.L. Rasoga, C.S. Breazu, G. Socol
141.	Encapsulated lysozyme into coatings of degradable polymeric blends fabricated by different methods	International Colloquium “Physics of Materials”, 13 – 14 noiembrie 2014, Bucuresti; Prezentare orală , 14 noiembrie	A. Visan, M. Miroiu, N. Stefan, C. Nita, G. Dorcioman, M. Socol, I. Zgura, O.L. Rasoga, C.S. Breazu, L. Sima, L. Ivan, A. Stanculescu, R. Cristescu, G. Socol, I.N. Mihailescu;
142.	The effects induced in transition metal nitrides thin films by heavy ions irradiation	Simpozion J, Conferinta Internationala EMRS 2014, 26-30 mai, 2014, Lille, Franta; poster	G. Dorcioman, G. Socol, D. Craciun, N. Stefan, Dominique Gosset, David Simeone, V. Craciun
143.	Hard coatings based on transition metal nitrides obtained by pulsed laser deposition	12th IUVESTA School on Lasers in Materials Science, Laser Engineering of Surfaces and Coatings Isola di San Servolo, Venice, Italy, 13th-20th July 2014, oral/poster,	G. Dorcioman, G. Socol, D. Craciun, N. Stefan, D. Gosset, D. Simeone, V. Craciun, D. Cristea, M. Stoicanescu, B. Boesl, N. Argibay
144.	Radiation effects induced in transitional metal nitrides thin films by heavy ions irradiation	Simpozion G, EMRS 2014, Fall Meeting, 15-19 septembrie, Varsovia, Polonia. poster	G. Dorcioman, G. Socol, D. Craciun, N. Stefan, Dominique Gosset, David Simeone, V. Craciun, C. Martin, S. Behdad, B. Boesl, D. Pantelica, P. Ionescu, E. Lambers
145.	Antimicrobial activity of biopolymeric thin films containing with natural compounds and antibiotics fabricated by MAPLE	Prezentare orală, 23 septembrie 2014, 10th International Conference on Physics of Advanced Materials, September 22-28, 2014, Iasi, Romania	R. Cristescu, A. Visan, G. Socol, D.E. Mihaiescu, M.C. Chifiriuc, R.D. Boehm, R.J. Narayan, D.B. Chrisey
146.	Matrix Assisted Pulsed Laser Evaporation (MAPLE) for Biomedical Applications	Lectie invitata: National Hellenic Research Foundation, The Theoretic and Physical Chemistry Institute, July 24, 2014, Athens, Greece.	R. Cristescu

147.	Compositional analyses of indium zinc oxide thin films by spectroscopic techniques	Poster presentation ALT14 Conference, 6 - 10 October 2014, Cassis, France	E. Axente, J. Hermann, G. Socol, C.R. Luculescu, D. Pantelica, Ion N. Mihailescu and V. Craciun
148.	Determination of the elemental composition of optical glasses by laser-induced breakdown spectroscopy	Oral presentation ALT14 Conference, 6 - 10 October 2014, Cassis, France	C. Gerhard, J. Hermann, L. Mercadier, L. Loewenthal, E. Axente, C. R. Luculescu, T. Sarnet, M. Sentis, W. Viöl
149.	On the metrology of ternary and quaternary/complex amorphous transparent oxides by spectroscopic techniques	Poster presentation ELECTROCERAMICS conference, Bucharest, Romania, June 16th – 20th, 2014	E. Axente, J. Hermann, G. Socol, A. C. Galca, and V. Craciun
150.	Spectroscopic investigations of amorphous indium zinc oxide thin films with compositional gradient	Poster presentation International Conference "MODERN LASER APPLICATIONS" Fourth Edition, 19-23 Mai, 2014 Bran, Romania	E. Axente, G. Socol, S.A. Beldjilali, L. Mercadier, C.R. Luculescu, A.C. Galca, D. Pantelica, I. N. Mihailescu, J. Hermann, and V. Craciun
151.	Analyses de verre par mesures LIBS autocalibrées	Invited presentation Journées LIBS France 2014, 2 et 3 juin 2014 à l'ENSCP (Paris), France	J. Hermann, M. Seif Eddine, T. Sarnet, C. Gerhard, L. Loewenthal, E. Axente
152.	Accurate Analysis of Indium Zinc Oxide Compositional Libraries Thin Films via Laser-Induced Breakdown Spectroscopy	Poster presentation 8th International Conference on Laser Induced Breakdown Spectroscopy (LIBS 2014), Beijing, China, September 8th to 12th, 2014	E. Axente, J. Hermann, G. Socol, C.R. Luculescu, I.N. Mihailescu, and V. Craciun
153.	Quantification of Glass-Forming Oxides in Optical Glasses by LIBS	Poster presentation 8th International Conference on Laser Induced Breakdown Spectroscopy (LIBS 2014), Beijing, China, September 8th to 12th, 2014	C. Gerhard, J. Hermann, L. Loewenthal, E. Axente, T. Sarnet, W. Viöl
154.	Compositional Investigations of Amorphous Indium Zinc Oxide Thin Films Deposited by Combinatorial Pulsed Laser Deposition	Poster presentation 2014 MRS Spring Meeting, April 21-25 San Francisco, California, USA	V. Craciun, E. Axente, J. Hermann, G. Socol, C. R. Luculescu, P. Ionescu, D. Pantelica, A. C. Galca, C. Martin, L. M. Trica
155.	Er and Eu doped TiO ₂ thin films grown by matrix assisted pulsed laser evaporation from colloidal solutions: structure and optical properties	Poster presentation: E-MRS 2014, Lille, France, May 26-30	L. Duta, C. Nita, I. Camps, R. Serna, M. Borlaf, M. T. Colomer, R. Moreno, A. Perez del Pino, C. Logofatu, E. Gyorgy
156.	Light emitting TiO ₂ : Eu thin films produced by matrix assisted pulsed laser evaporation from colloidal sols	Poster presentation: E-MRS 2014, Lille, France, May 26-30	I. Camps, L. Duta, C. Nita, E. Gyorgy, M. Borlaf, R. Serna, C. Logofatu, M. T. Colomer, R. Moreno

157.	Effect of nitrogen doping on wetting and photoactive properties of laser processed zinc oxide - graphene oxide nanocomposite layers	Poster presentation, 1st Place Poster Presentation Prize Nanoscience Advances in CBRN Agents Detection, Information and Energy Security; organizat de NATO Advanced Study Institute in cadrul programului Science for Peace and Security (SPS) al North Atlantic Treaty Organization, Sozopol, Bulgaria	A. Datcu, A. Pérez del Pino, C. Logofatu, A. Duta, E. Gyorgy
158.	Composite biodegradable biopolymer coatings of Silk Fibroin – Poly(3-Hydroxybutyric-acid-co-3-Hydroxyvaleric-acid) for biomedical applications	International Conference on Physics of Advanced Materials, ICPAM-10, September 22-28, 2014, Iasi, Romania, Prezentare poster, P10	Miroiu Floralice Marimona, Stefan Nicolaie, Visan Anita Ioana, Nita Cristina, Cristescu Rodica, Zgura Irina, Rasoga Oana L., Mihailescu Ion N., Socol Gabriel
159.	Comparative study on MAPLE and Dip Coating techniques for fabrication of biodegradable polymer thin films with medical applications	International Conference on Physics of Advanced Materials, ICPAM-10, September 22-28, 2014, Iasi, Romania, Prezentare poster, P11	Visan Anita Ioana, Stefan Nicolaie, Miroiu Floralice Marimona, Nita Cristina, Dorcioman Gabriela, Zgura Irina, Rasoga Oana L., R, Breazu Carmen Steliana, Stanculescu Anca Ioana, Cristescu Rodica, Socol Gabriel, Mihailescu Ion N.
160.	Matrix Assisted Pulsed Laser Evaporation deposition of silk fibroin/poly(sebacic acid) diacetoxy terminated composite coatings for biodegradation medical applications	International Conference on Physics of Advanced Materials, ICPAM-10, September 22-28, 2014, Iasi, Romania, Prezentare poster, P12	Stefan Nicolaie, Miroiu Floralice Marimona, Visan Anita Ioana, Nita Cristina, Zgura Irina, Rasoga Oana L., Stanculescu Anca Ioana, Socol Gabriel
161.	Morphological, structural and biological characteristics of ultra-high molecular weight polyethylene acetabular cups functionalized with bioactive glass coatings by pulsed laser deposition	poster presentation (JP.VIII 20) at Symposium J, EMRS Spring Meeting, Lille, France, May 26-30-th, 2014	L. Duta, G.E. Stan, A.C Popescu, A.C. Popa, F. Miculescu, I.N. Mihailescu
162.	Synthesis of biological hydroxyapatite thin films by pulsed laser deposition	poster presentation (JP.VIII 21) at Symposium J, EMRS Spring Meeting, Lille, France, May 26-30-th, 2014	L. Duta, G.E. Stan, N. Serban, F.N. Oktar, I.N. Mihailescu
163.	Light emitting TiO ₂ : Eu thin films produced by matrix assisted pulsed laser evaporation from colloidal sols	poster presentation (I.P3. 10) at Symposium I, EMRS Spring Meeting, Lille, France, May 26-30-th, 2014	I. Camps, L. Duta, C. Nita, E. György, M. Borlaf, R. Serna, C. Logofatu, M. T. Colomer, R. Moreno

164.	Er and Eu doped TiO ₂ thin films grown by matrix assisted pulsed laser evaporation from colloidal solutions: structure and optical properties	poster presentation (JP.XI 26) at Symposium J, EMRS Spring Meeting, Lille, France, May 26-30-th, 2014	L. Duta, C. Nita, I. Camps, R. Serna, M. Borlaf, M. T. Colomer, R. Moreno, A. Pérez del Pino, C. Logofatu, E. György
165.	DLC hard protective coatings synthesized by Pulsed Laser Deposition	oral presentation (G.I 2) at Symposium G, EMRS Spring Meeting, Lille, France, May 26-30-th, 2014	C. Nita, L. Duta, G.E. Stan, C. Popescu, V. Craciun, M. Husanu, B. Bită, R. Ghisleni, C. Himcinschi, A. C. Popescu
166.	Multilayered AlN thin films synthesized on silicon substrates by pulsed laser deposition at different temperatures	poster presentation (2.13) at 18-th International School on Condensed Matter Physics, St. Constantine & Helena, Varna, Bulgaria, September 1-st-6-st, 2014	L. Duta, S. Bakalova, G.E. Stan, N. Mihailescu, A. Szekeres, I. N. Mihailescu
167.	Hard DLC protective coatings synthesized by Pulsed Laser Deposition	oral presentation (6 20) at Symposium G, EMRS Fall Meeting, Warsaw University of Technology, Poland, September 15-th-19-th, 2014	A. C. Popescu, L. Duta, C. Nita, G.E. Stan, C. Popescu, M. Husanu, B. Bită, R. Ghisleni, C. Himcinschi, A. Surdu
168.	Light guiding light in lithium niobate / Invited	The Fourth Int. Conf. "Modern Laser Applications" INDLAS 2014, 19-23 May 2014, Bran, Romania	A. Petris, S. T. Popescu, V. I. Vlad
169.	Interferometric measurement of light induced refractive index changes / Oral	The Fourth Int. Conf. "Modern Laser Applications" INDLAS 2014, Bran, Romania; 19-23 May 2014	Dancus I, Popescu ST, Petris A
170.	The third-order nonlinear optical response of Rhodamine 610-doped DNA-CTMA complex / Poster	The Fourth Int. Conf. "Modern Laser Applications" INDLAS 2014, Bran, Romania; 19-23 May 2014,	Bazaru Rujoiu T., Gheorghe P. S., Dancus I., Petris A., Vlad V.I., Rau I., Tane A., Kajzar F., Meghea A.
171.	Measuring very low optical powers using a commercial CMOS camera" / Poster	The Fourth Int. Conf. "Modern Laser Applications" INDLAS 2014, Bran, Romania; 19-23 May 2014	S.T. Popescu, P.S. Gheorghe, A. Petris
172.	Photorefractive self-induced waveguides in lithium niobate for integrated photonics applications / Oral	International Scientific Conference of Physics and Natural Sciences "Open Readings", Vilnius, Lithuania; March 19-21, 2014	Popescu ST; Petris A; Vlad VI;
173.	Diffraction on dynamic gratings induced by laser in 5CB liquid crystals doped with DY7 dye / Poster	The Fourth Int. Conf. "Modern Laser Applications" INDLAS 2014, Bran, Romania; 19-23 May 2014	Gheorghe P; Petris A; Vlad VI; Zgura I; Frunza S; Frunza L;
174.	Nonlinear optical properties of chromophore functionalized DNA surfactant complexes / Invited	SPIE Nanobiosystems: Processing, Characterization, and Applications VII, Paper 9171-12 (Tuesday 19 August, Time: 9:00 AM - 9:30 AM), 17 – 21 august 2014, San Diego, California, United States	F. Kajzar, A.-M. Manea, V. I. Vlad, A. Petris, T. Bazaru Rujoiu, A. Tane, I. Rau,

175.	Light-induced spatial phase modulation in dye-doped DNA systems studied by a single shot interferometric method / Invited	Fourth Int. Workshop on Advanced, Nano- and Biomaterials and their Device Applications & French-Romanian Topical Meeting on Nano- and Biomaterials, Iasi, Romania; 17-21 Sept. 2014	Petris A; Popescu ST; Gheorghe P; Dancus I; Vlad VI; Rau I; Kajzar F; Manea AM, Tane A; Meghea A;
176.	Functionalization and photo-physical properties of DNA-surfactant complexes / Invited	4th International Workshop on Advanced, Nano- and Biomaterials and Their Applications & Third French-Romanian Topical Meeting on Nano- and Biomaterials, Paper in Session 4 DNA Photonics (Thursday 18 Sept, Time: 16:30 PM – 17:00 PM), 17 – 21 septembrie 2014, Iasi, Romania	I. Rau, A.-M. Manea, V. I. Vlad, A. Petris, T. Bazaru Rujoiu, A. Tane, F. Kajzar
177.	Interferometric measurement of the electro-optic and pyroelectric coefficients of lithium niobate / Invited	5th International Student Conference on Photonics, Orastie, Romania; Sept. 23-26, 2014	Petris A.
178.	The study of the third-order optical nonlinearity of metal nanostructures using the effective medium theory / Poster	5th International Student Conference on Photonics, Orastie, Romania; Sept. 23-26, 2014	Bazaru-Rujoiu T; Petris A; Vlad VI
179.	Photoinduced diffraction gratings in As ₂ S ₃ / Poster	5th International Student Conference on Photonics, Orastie, Romania; Sept. 23-26, 2014	Gheorghe P; Petris A; Vlad VI
180.	The third-order optical nonlinearities of dye-doped DNA surfactant complex / Poster	Winter College on Optics: Fundamentals of Photonics - Theory, Devices and Applications, Trieste, Italy (Feb. 10-21, 2014); 12 February 2014	Bazaru Rujoiu T; Gheorghe PS; Dancus I; Petris A; Vlad VI; Rau I; Tane A; Kajzar F; Meghea A.
181.	Optical measurement of pyroelectric coefficient in lithium niobate / Poster	Winter College on Optics: Fundamentals of Photonics - Theory, Devices and Applications, Trieste, Italy (Feb. 10-21, 2014); 12 February 2014	Popescu S.T.; Petris A.; Vlad V.I.
182.	High power laser system in Romania and laser developments roadmap for ELI-NP / Invited	IBWAP 2014, Constanta, Romania July 2-4, 2014	Ioan Dancus, Daniel Ursescu, Liviu Neagu, Mihail Cernaianu, Theodor Asavei, Razvan Dabu, Ion Morjan, Sydney Gales, Nicolae V. Zamfir
183.	CETAL 1PW laser system status and laser developments roadmap for ELI-NP / Invited	INDLAS 2014, Bran, Romania, May 19-23, 2014	Ioan Dancus, Daniel Ursescu, Liviu Neagu, Mihail Cernaianu, Theodor Asavei, Aurelian Marcu, Florin Jipa, Ionut Nicolae, Gabriel Cojocaru, Romeo Banici, Razvan Ungureanu, Razvan Dabu, Catalin Ticos, Mihai Ganciu,

			Constantin Grigoriu, Ion Morjan, Sydney Gales, Nicolae V. Zamfir
184.	HPLS in Romania – Laser status /Invited	ELI-NP/IZEST 2014 Participant Council, Paris, France, September 17-19, 2014	Ioan Dancus, Daniel Ursescu, Liviu Neagu, Razvan Dabu, Constantin Grigoriu, Ion Morjan
185.	Experimental area for Laser Driven Nuclear Physics at ELI-NP / Poster	ELI-NP/IZEST 2014, Paris, France, September 17-19, 2014	Septimiu Balascuta, Florin Negoita, Ion Dancus, D. Ursescu, Matei Tataru, Mihai Risca, Cristian Petcu, Peter Thirolf, Markus Roth, Sydney Gales
186.	Strong Field Physics and QED with 2x10PW Lasers: Proposed Experimental E6 Area at ELI-NP / Poster	ELI-NP/IZEST 2014, Paris, France, September 17-19, 2014	S. Balascuta, E. Turcu, F. Negoita, I. Dancus, D. Ursescu, M. Tataru, C. Petcu, M. Risca, I. Mitu, S. Yoffe, A. Noble, E. Brunetti, D. Jaroszynski, P. McKenna, S. Gales
187.	Control Systems at ELI-NP / Poster	ELI-NP/IZEST 2014, Paris, France, September 17-19, 2014	Mihail Octavian Cernaianu, Bertrand de Boisdeffre, Daniel Ursescu, Ovidiu Tesileanu, Calin A. Ur, Dimiter Balabanski, Ioan Dancus, Sydney Gales
188.	Laser Beam Delivery at ELI-NP / Poster	ELI-NP/IZEST 2014, Paris, France, September 17-19, 2014	Liviu Neagu, Ioan Dancus, Daniel Ursescu, Mihail O. Cernaianu, Razvan Dabu, Ion Morjan, Sydney Gales, N.V. Zamfir
189.	Thin Film Compression toward the Zeptosecond-scale / Poster	ELI-NP/IZEST 2014, Paris, France, September 17-19, 2014	Jonathan A Wheeler, Ioan Dancus, Liviu Neagu, Razvan Dabu, Gérard Mourou
190.	Laser Driven Experiments at Extreme Light Infrastructure-Nuclear Physics (ELI-NP) / Invited	5th International Student Conference on Photonics, Orastie, Romania; Sept. 23-26, 2014	*L. Neagu, I. Dancus, D. Ursescu, S. Balascuta, M. O. Cernaianu, C. Petcu, M. Tataru, V. Leca, M. Risca, I. Morjan, G. Cheriaux, M. Roth, P. McKenna, K. Homma, M. Tomut, F. Negoita, S. Gales, N. V. Zamfir
191.	Dispersive elements for THz domain/ poster	INDLAS 2104," Modern Laser Applications" 19-24, mai, 2014 Bran	V.Damian, M.Bojan, G.D.Chioibas, F.Garoi, P.C.Logofatu,L.Mihai, C.Udrea,I.Urzica,T.Vasile, C.Viespe

192.	Two temperature model for metals: a new "radical" approach: theory versus experiment oral	INDLAS 2104," Modern Laser Applications" 19-24, mai, 2014 Bran	Mihai Oane, Victor Damian
193.	Physical Fourier encoding and compacting of optical data oral	Advanced Topics In Optoelectronics, Microelectronics, And Nanotechnologies VII - 2014 - 21-24 Aug. Constanta	Petre Cătălin Logofătu, Florin Garoi, Victor Damian, Cristian Udrea
194.	1D hyperspectral images of a light emitting diodes array poster	ATOM-N - 2014 - 21-24 aug. Constanta	I.Urzica (Iordache), V.Damian, P.C.Logofatu, D.Apostol, T.Vasile, C.Udrea
195.	Terahertz range complex refractive index determinations for liquids using ATR poster	ATOM-N - 2014 - 21-24 aug. Constanta	Adrian Dobroiu, Petre Catalin Logofatu
196.	L1 minimization applied to two sparse signals that can be described as sums of elementary functions poster	ATOM-N - 2014 - 21-24 aug. Constanta	Petre Catalin Logofatu
197.	Influence of Physical Vapor Deposition Processes on the Performance and Morphology of Vanadium Dioxide Thin Films	MRS Spring, San Francisco, USA, 2014	V. Craciun
198.	Optical properties of nanocrystalline , "SiC thin films grown by pulsed laser deposition	E-MRS Spring, Lille, Franta	V. Craciun
199.	Boro-phosphate glasses for optoelectronics and photonics/in plen	INDLAS, Bran, Romania, 2014	B. Sava, L. Boroica, R. Medianu
200.	Magnetic and magneto-optical properties of La, Y and Eu-doped phosphate glasses/in plen	Borate Phosphate, Pardubice, Cehia 2014	B. Sava, L. Boroica
201.	Boro-phosphate glasses doped with d and f oxides for photonics, preparation and characterization/poster	Borate Phosphate, Pardubice, Cehia 2014	B. Sava, L. Boroica
202.	Magneto-optical and mechanical properties of rare-earth doped phosphate glasses/in plen	MSCMP, Chisinau, Moldova, 2014	B. Sava, L. Boroica
203.	Doped boro-phosphate vitreous materials as PLD thin films, obtaining and properties/in plen	MSCMP, Chisinau, Moldova, 2014	B. Sava, L. Boroica
204.	Micro and macro mechanical properties of alumino-phosphate glasses depending on the composition and loading conditions/in plen	MSCMP, Chisinau, Moldova, 2014	B. Sava, L. Boroica
205.	Optical, thermal and structural properties of iron-doped phosphate glasses/poster	ESG, Parma, Italia, 2014	B. Sava, L. Boroica
206.	Phosphate and borate-phosphate glasses. Obtaining, properties and some applications/poster	Balkan Conference on Glass Science & Technology, Nessebar, Bulgaria, 2014	B. Sava, L. Boroica

207.	Structure and properties of doped boro-phosphate glasses for magneto- optical devices/in plen	Balkan Conference on Glass Science & Technology, Nessebar, Bulgaria, 2014	B. Sava, L. Boroica
208.	Thermally induced indentation recovery in therbium doped alumino-phosphate glasses	Competitive Materials and Technology Processes, Miskolc, Ungaria, 2014	B. Sava, L. Boroica
209.	Rare-earth doped phosphate glasses for magneto-optical devices	Competitive Materials and Technology Processes, Miskolc, Ungaria, 2014	B. Sava, L. Boroica
210.	MAPLE for Functional Coatings with Applications in Tissue Engineering /oral	High Power Laser Ablation, Santa Fe, USA, 18-28.04.2014	F. Stokker, M. Dinescu, I. Paun, A. Matei
211.	Laser printing of carbon nanotube networks for chemiresistor fabrication / oral	E-MRS 2014 FALL MEETING, Warsaw University of Technology, Polonia, 15-18.09.2014	M. Dinescu, A. Palla-Papavlu, J. Chen, A.Wokaun, T. Lippert
212.	Laser processing of soft materials / oral	Conferinta EMRS, Spring meeting, Lille, Franta, 27-29.05.2014	M. Dinescu, I. Paun, V. Dinca, A. Palla-Papavlu
213.	Functional oxide thin films obtained by Pulsed Laser Deposition / lectie invitata	12th IUVESTA School on Lasers in Materials Science, Venice, Italy, 13-20.07.2014	M. Dinescu
214.	Focusing criterion in digital holographic microscopy image reconstruction / oral	Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies, Constanta, Romania, 21-24 August 2014	M. Mihailescu, N. Mihale, R. C. Popescu, A. Acasandrei, I. A. Paun, M. Dinescu, E. Scarlat
215.	Optical and electrical properties of $(\text{Ba}_{1-x}\text{Ca}_x)(\text{Zr}_{1-y}\text{Ti}_y)\text{O}_3$ polycrystalline thin films growth by pulsed laser deposition / poster	10th International Conference on Physics of Advanced Materials, Iași, Romania; 22 – 28.09.2014;	V. Ion, N. D.Scarisoreanu, A. Andrei, R. Birjega, M. Dinescu, A. Bercea, F. Craciun
216.	Electrical and optical properties of $(\text{Ba}_{1-x}\text{Ca}_x)(\text{Zr}_{1-y}\text{Ti}_y)\text{O}_3$ lead-free thin films grown by PLD	4th International Colloquium "Physics of Materials", Bucuresti, Romania, 13-14.11.2014	A. I. Bercea, V. Ion, N. D. Scarisoreanu, A. Andrei, R. Birjega, M. Dinescu
217.	Depunerea cu tehnici laser și analiza filmelor subțiri de $\text{Ba}_{1-x}\text{Ca}_x(\text{Zr}_{1-y}\text{Ti}_y)\text{O}_3$ / oral	Sesiunea anuala de comunicari stiintifice a Facultatii de Fizica a Universitatii Bucuresti, Iunie, 2014	Bercea A, Scarisoreanu N.D., Craciun F., Andrei A., Ion V., Birjega R., Dinescu M.
218.	Functional properties of nanostructured lead-free $(\text{Ba}_{1-x}\text{Ca}_x)(\text{Zr}_{1-y}\text{Ti}_y)\text{O}_3$ thin films produced by laser ablation / poster	NANOSEA, Marsilia, Franta, 7-11.07.2014	N. D. Scarisoreanu, F. Craciun, A. Andrei, V. Ion, R. Birjega, L.Nedelcu, M. Dinescu
219.	Synthesis of lead –free $(\text{Ba}_{1-x}\text{Ca}_x)(\text{Zr}_{1-y}\text{Ti}_y)\text{O}_3$ thin films by laser ablation and their functional properties / poster	Conferinta EMRS, Spring meeting, Lille, Franta, J.VI 1, E-MRS Spring Meering, 26-30 mai 2014	N. D. Scarisoreanu, A. Andrei, V. Ion, R. Birjega, L.Nedelcu, A. Moldovan, F. Craciun, Dinescu M.
220.	Er/Yb doped LiYF_4 thin films obtained by pulsed laser deposition of a silica xerogel / poster	Conferinta EMRS, Spring meeting, Lille, Franta, J.VI 16, E-MRS Spring Meering, 26-30 mai 2014	F. Stokker-Cheregi, A. Matei, M. Dinescu, C. E. Secu, M. Secu

221.	Combined micro- and nanoscale topography on Zirconia surfaces modulates human mesenchymal stem cells growth and cell nuclei alignment / poster	Conferinta EMRS, Spring meeting, Lille, Franta, JP.XI 19, E-MRS Spring Meeting, 26-30 mai 2014	L.E. Sima, V. Dinca, L. Rusen, M. Cazan, M. Chiritoiu, A. Palla-Papavlu, M. Dinescu
222.	Proliferation of cell cultures on polymers coated laser patterned Ti substrates / poster	Conferinta EMRS, Spring meeting, Lille, Franta, JP.XI 20, 26-30 mai 2014	F. Stokker-Cheregi, A. Matei, M. Dumitru, M. Zamfirescu, C. Mustaciosu, A. Acasandrei, M. Dinescu
223.	Fatty acids/ layered double hydroxides (LDH) composite thin films deposited by MAPLE and PLD/ poster	Conferinta EMRS, Spring meeting, Lille, Franta, JP.XI 21, 26-30 mai 2014	R. Birjega, A. Matei, B. Mitu, A. Vlad, M. Dinescu, R. Zavoianu, M. C. Corobea
224.	Tailoring the morphological and electrical properties of thin films of tungsten oxide nanoparticles embedded in polyaniline matrix by MAPLE technique / poster	Conferinta EMRS, Spring meeting, Lille, Franta, B.PI 29, 26-30 mai 2014	M. Filipescu, A. Palla-Papavlu, A. Matei, B. Mitu, V. Ion, F. Stokker-Cheregi, M. Dinescu
225.	Nanostructured tungsten oxide gas sensors prepared by pulsed laser deposition / poster	Conferinta EMRS, Spring meeting, Lille, Franta, JP.XI 23, 26-30 mai 2014	M. Filipescu, A. Palla-Papavlu, C.W. Schneider, T. Lippert, M. Dinescu
226.	Effect of the deposition conditions on the structural and morphological properties of nanostructured WO ₃ thin films deposited by PLD / poster	Conferinta EMRS, Spring meeting, Lille, Franta, JP.XI 45, E-MRS Spring Meeting, 26-30 mai 2014	M. Dumitru, M. Filipescu, V. Ion, D. Colceag, M. Dinescu
227.	Stearic acid/ layered double hydroxides (LDH) composite thin films deposited by laser techniques ICPAM -10/ poster	International Conference on Physics of Advanced Materials Iasi, Romania, 22-28.09.2014	A. Matei, R. Birjega, B. Mitu, A. Vlad, G. Epurescu, M. Dinescu, R. Zavoianu, M. C. Corobea
228.	Adsorption of copper from aqueous solutions using layered double hydroxides thin films / poster	Conferinta EMRS, Spring meeting, Lille, Franta, J.XI 27, E-MRS Spring Meeting, 26-30 mai 2014	A. Vlad, R. Birjega, A. Matei, C. Luculescu, M. Dinescu, R. Zavoianu, O.D. Pavel
229.	Functional properties of BFO nanostructures produced by laser ablation / poster	Conferinta EMRS, Spring meeting, Lille, Franta, J.XI 50, E-MRS Spring Meeting, 26-30 mai 2014	N. D. Scarisoreanu, R. Birjega, V. Ion, F. Craciun, V. Teodorescu, T. Lippert, M. Dinescu
230.	Adsorption of copper cations and sulphate anions from aqueous solutions on layered double hydroxides thin films deposited by PLD / poster	ICPAM -10, International Conference on Physics of Advanced Materials Iasi, Romania, 22-28.09.2014	A. Vlad, R. Birjega, A. Matei, C. Luculescu, A. Nedelcea, M. Dinescu, R. Zavoianu, O. D. Pavel
231.	Nanostructured layered double hydroxides(LDHs) for supercapacitor- electrode thin films / lectie invitata	Summer School on Renewable Energy Systems and Green Nanotechnologies for a Clean Environment, Palermo, 22-25.2014	Dinescu M.
232.	Laser material printing for sensors applications / lectie invitata	International Conference "Modern Lasers Application", Bran, 19-23 Mai 2014	Dinescu M.
233.	Tuned perovskite nanostructures with novel functional properties grown by laser ablation / lectie invitata	The 5th edition of International Student Conference on Photonics (ISCP 2014) Orastie, 22-26 Septembrie	Dinescu M.

234.	Influence of physical vapor deposition processes on the performance and morphology of vanadium dioxide thin films/oral	MRS Spring Meeting, San Francisco, USA, April 21-25, 2014.	R.E Marvel, R. Harl, V. Craciun, B. Rogers, R. Haglund.
235.	Pulsed laser deposition of transitional metals carbide, nitride and carbo-nitride hard coatings: chemistry, structure and mechanical properties / invited	International Conference "Modern Laser Applications INDLAS 2014", Bran, Romania, May 19-23, 2014.	G. Socol, D. Craciun, G. Dorcioman, N. Stefan, M. Hanna, C. R. Taylor, D. Cristea, M. Stoicanescu, D. Pantelica, P. Ionescu, N. Becherescu, C. Martin, E. Lambers, N. Argiby, V. Craciun
236.	The effect of the C content on the properties of ZrC thin films synthesized by pulsed laser deposition/ poster	International Conference "Modern Laser Applications INDLAS 2014", Bran, Romania, May 19-23, 2014.	D. Craciun, G. Socol, C. Martin, N. Stefan, B. Boesl, D. Simeone, D. Gosset, D. Pantelica, P. Ionescu, N. Argibay, V. Craciun.
237.	Infrared optical properties of ZrC thin films synthesized by pulsed laser deposition/ oral	E-MRS Spring Meeting, Lille, France, May 26-30, 2014	V. Craciun, C. Martin, G. Socol, D. Tanner, D. Craciun
238.	Optical properties of nanocrystalline SiC thin films grown by pulsed laser deposition/ poster	E-MRS Spring Meeting, Lille, France, May 26-30, 2014	V. Craciun, A.C. Galca, L. M. Trinca, G. Socol, D. Craciun, E. Lambers
239.	On the metrology of amorphous transparent oxides by spectrometry techniques/ poster	E-MRS Spring Meeting, Lille, France, May 26-30, 2014	E. Axente, J. Hermann, G. Socol, A.C. Galca, D. Pantelica, P. Ionescu, N. Becherescu, I. N. Mihailescu, and V. Craciun
240.	Mechanical properties of pulsed laser deposited nanocrystalline SiC films/ poster	E-MRS Spring Meeting, Lille, France, May 26-30, 2014	G. Socol, D. Cristea, M. Stoicanescu, D. Craciun, N. Olah, K. Balazs, E. Lambers, and V. Craciun
241.	On the metrology of amorphous transparent and conductive oxides grown by combinatorial pulsed laser deposition/ Invited	IUMRS-ICEM Taipei, Taiwan, June 10-14 2014.-	G. Socol, E. Axente, J. Hermann, A. C. Galca, D. Pantelica, P. Ionescu, N. Becherescu, C. Martin, V. Craciun
242.	Investigations of the optical, structural and mechanical properties of nanostructured thin SiC films grown by pulsed laser deposition/ poster	ELECTROCERAMICS XIV, Bucharest, Romania June 16-20, 2014	G. Socol, N. Stefan, D. Craciun, V. Craciun, A.C. Galca, L.M. Trinca, D. Simeone, D. Gosset, S. Behdad, B. Bosel, E. Lambers, N. Olah, K. Balazsi
243.	Investigations of radiation effects on the structure and properties of nanocrystalline SiC thin films/ poster	EMRS Fall Meeting, Warsaw, Poland, September 15-19, 2014	D. Craciun, G. Socol, N. Stefan, V. Craciun, D. Simeone, D. Gosset, A.C. Galca, L.M. Trinca, S. Behdad, B. Bosel, V. Bogdan, A. Surdu

244.	Characteristics of nanostructured thin SiC films grown by pulsed laser deposition/ poster	EMRS Fall Meeting, Warsaw, Poland, September 15-19, 2014	G. Socol, N. Stefan, D. Craciun, V. Craciun, A.C. Galca, L.M. Trinca, D. Cristea, M. Stoicanescu, D. Munteanu, E. Lambers, N. Olah, K. Balazsi
245.	Synthesis and characterization of doped hafnium oxide thin films for applications in thin film transistors/ poster	EMRS Fall Meeting, Warsaw, Poland, September 15-19, 2014	E. Axente, G. Socol, G. Dorcioman, D. Craciun, A.C. Galca, J. Hermann, V. Craciun
246.	Ion irradiation effects on the structure and properties of ZrC thin films synthesized by pulsed laser deposition/ poster	EMRS Fall Meeting, Warsaw, Poland, September 15-19, 2014	D. Craciun, G. Socol, C. Martin, N. Stefan, D. Simeone, D. Gosset, S. Behdad, B. Boesl, D. Pantelica, P. Ionescu, V. Bogdan, A. Surdu, V. Craciun
247.	Investigations of hard TiC films for nuclear reactors applications/ poster	EMRS Fall Meeting, Warsaw, Poland, September 15-19, 2014	A.C. Popescu, D. Cristea, M. Stoicanescu, A. Crisan, G. Guillionneau, E. Lambers, G. Socol, V. Craciun
248.	Laser Emission from Nd:YAG Laser Waveguides Realized by Femtosecond-Laser Writing Techniques 9135-52; oral presentation	2014 Photonics Europe SPIE Conference, 14-17 April 2014, Brussels, Belgium	G. Salamu, F. Jipa, M. Zamfirescu, and N. Pavel
249.	Passively Q-switched, composite Nd:YAG/Cr ⁴⁺ :YAG laser pumped laterally through a prism LIC5-2; oral presentation	The 2nd Laser Ignition Conference, 22 - 25 April 2014, Pacifico Yokohama, Yokohama, Japan	N. Pavel, G. Salamu, and T. Dascalu
250.	Waveguides Fabricated in Nd:YAG by Direct fs-Laser Writing - Realization and Laser Emission under Diode-Laser Pumping S2-L07; invited presentation	The 14 th International Balkan Workshop on Applied Physics, July 2-4, 2014, Constanta, Romania	N. Pavel, G. Salamu, F. Voicu, T. Dascalu, F. Jipa, and M. Zamfirescu
251.	Multiple THz Pulses Generated by Optical Filamentation S2-OP3; oral presentation	The 14 th International Balkan Workshop on Applied Physics, July 2-4, 2014, Constanta, Romania	T. Dascalu, O. Grigore, M. Dinca, N. Pavel, C. Cojocaru, R. Ungureanu, and R. Banici
252.	Luminescence Properties in Langatate Ceramics Doped with Tm ³⁺ and Yb ³⁺ pS2-OP2; oral presentation	The 14 th International Balkan Workshop on Applied Physics, July 2-4, 2014, Constanta, Romania	C. Matei, S. Georgescu, A. M. Voiculescu, A. Stefan, and O. Toma
253.	Synthesis and Characterization of La ₃ Ga _{5.5} Ta _{0.5} O ₁₄ Doped with Holmium and Ytterbium S2-P20; poster presentation	The 14 th International Balkan Workshop on Applied Physics, July 2-4, 2014, Constanta, Romania	A. M. Voiculescu, S. Georgescu, C. Matei, A. Stefan, and O. Toma

254.	Laser Emission at 1.06 μm in Nd:GdLuCOB and Nd:GdCOB Crystals S2-OP4; oral presentation	The 14 th International Balkan Workshop on Applied Physics, July 2-4, 2014, Constanta, Romania	C. A. Brandus, L. Gheorghe, F. Voicu, and T. Dascalu
255.	Preliminary Synthesis for Transparent 1at.% Nd-YAG Ceramics S2-P08; poster presentation	The 14 th International Balkan Workshop on Applied Physics, July 2-4, 2014, Constanta, Romania	C. A. Vasilescu, T. Dascalu, C. Stanciu, R. Barjega, C. Luculescu and N. Pavel
256.	Nd:YAG at its 50 th anniversary: Still to learn I 31; invited presentation	17th International Conference on Luminescence and Optical Spectroscopy of Condensed Matter (ICL2014), 13-18 July, 2014, Wroclaw, Poland	V. Lupei and A. Lupei
257.	Perturbed centers in visible emission of Ce ³⁺ :YAG ceramic P 25; poster presentation	17th International Conference on Luminescence and Optical Spectroscopy of Condensed Matter (ICL2014), 13-18 July, 2014, Wroclaw, Poland	A. Lupei, V. Lupei, C. Gheorghe, S. Hau, and A. Ikesue
258.	IR, NIR and Vis to NIR and Vis up - conversion emission in Er doped BiOCl 2/P/161; poster presentation.	JUNIOR EUROMAT 2014, 20 - 25 iulie 2014, Lausanne, Switzerland	D. Avram and C. Tiseanu
259.	Efficient laser emission in diode-pumped Nd:YAG cladding waveguides fabricated by direct writing with a helical movement technique TuP-T2-P-02, poster presentation; Europhysics Conference Abstract Vol. 38 E; ISBN 2-914771-89-4.	6th EPS-QEOD EUROPHOTON CONFERENCE, Solid State, Fibre, and Waveguide Coherent Light Sources, 24-29 August, 2014, Neuchâtel, Switzerland	N. Pavel, G. Salamu, F. Jipa, M. Zamfirescu, F. Voicu, and T. Dascalu
260.	Sm ³⁺ -doped Sr _{1-x} La _x Mg _x Al _{12-x} O ₁₉ (ASL) single crystals for visible yellow-orange lasers I.05; invited presentation	5th International Student Conference on Photonics, Orastie, Romania, 23-26 September 2014	L. Gheorghe, A. Achim, G. Stanciu, F. Voicu, and C. Gheorghe
261.	Passively Q-switched Nd:YAG/Cr ⁴⁺ :YAG lasers for automobile-engine ignition, I.07; invited presentation	5th International Student Conference on Photonics, Orastie, Romania, 23-26 September 2014;	N. Pavel, M. Dinca, and T. Dascalu
262.	Laser emission from diode-pumped Nd:YAG waveguide lasers realized by femtosecond-writing technique O.02; oral presentation	5th International Student Conference on Photonics, Orastie, Romania, 23-26 September 2014	G. Salamu, F. Jipa, M. Zamfirescu, F. Voicu, and N. Pavel
263.	Efficient laser emission from a disordered Yb:CLNGG crystal P.07; poster presentation	5th International Student Conference on Photonics, Orastie, Romania, 23-26 September 2014	G. Salamu, F. Voicu, A. Achim, L. Gheorghe, N. Pavel, and T. Dascalu

264.	Preliminary results on Sm ³⁺ :YAG transparent ceramic P.09; poster presentation	5th International Student Conference on Photonics, Orastie, Romania, 23-26 September 2014	F. Voicu, C. Gheorghe, S. Hau, L. Esposito, and J. Hostasa
265.	Synthesis by solid state reaction and luminescence properties of calcium scandate (CaSc ₂ O ₄) doped with Ho ³⁺ and Yb ³⁺ P.24; poster presentation	5th International Student Conference on Photonics, Orastie, Romania, 23-26 September 2014	A. Stefan, S. Georgescu, O. Toma, A.M. Voiculescu, and C. Matei
266.	Growth and preliminary characterization of La(Ca _{1-x} Sr _x) ₄ O(BO ₃) ₃ single crystals for SHG in NCPM conditions of 1.03 μm laser emission O.05; oral presentation	5th International Student Conference on Photonics, Orastie, Romania, 23-26 September 2014	A. Achim, L. Gheorghe, and G. Stanciu
267.	High intensity multiple THz sources and its applications I.06; invited presentation	5th International Student Conference on Photonics, Orastie, Romania, 23-26 September 2014	T. Dascalu, G. Cojocaru, R. Ungureanu, R. Banici, O. Grigore, and M. Dinca
268.	Multiple High-Intensity THz Generation by Consecutive Two-Color Filaments in Air LW11.5; oral presentation	Frontiers in Optics 2014, OSA Technical Digest (online) (Optical Society of America, 2014),	T. Dascalu, R. Ungureanu, G. Cojocaru, O. Grigore, R. Banici, and M. Dinca
269.	Efficient Laser Emission under 880-nm Diode-Laser Pumping of Cladding Waveguides Inscribed in Nd:YVO ₄ by Femtosecond-Laser Writing Technique ATu2A.26; poster presentation	Advanced Solid State Lasers (ASSL) Congress, 16-21 November 2014, Shanghai, China	N. Pavel, G. Salamu, F. Jipa, and M. Zamfirescu
270.	Novel crystals for yellow-orange lasers CM-IO6; invited presentation	TIM 14 Physics Conference - Physics without frontiers, 20-22 November 2014, Timisoara, Romania	L. Gheorghe, C. Gheorghe, A. Achim, F. Voicu and G. Stanciu
271.	Blue light production by type-I non-critical phase matching second-harmonic generation in La(Ca _{1-x} Sr _x) ₄ O(BO ₃) ₃ : Crystal growth and nonlinear characterization CM-O03; oral presentation	TIM 14 Physics Conference - Physics without frontiers, 20-22 November 2014, Timisoara, Romania	A. Achim, L. Gheorghe, G. Stanciu and F. Voicu
272.	Synthesis and characterization of Eu ³⁺ doped SrY ₂ O ₄ phosphor CM-P17; poster presentation	TIM 14 Physics Conference - Physics without frontiers, 20-22 November 2014, Timisoara, Romania	C. Matei, S. Georgescu, C. Vasilescu, G. Stanciu, A.-M. Voiculescu and A. Stefan
273.	Growth of Sr _x Ba _{1-x} Nb ₂ O ₆ thin films by RF-PLD for optical and electro-optical devices CM-P18; poster presentation	TIM 14 Physics Conference - Physics without frontiers, 20-22 November 2014, Timisoara, Romania	G. Stanciu, A. Achim, N. Scarisoreanu, M. Dinescu and E. Andronesu

274.	Transparent 1.0-at.% Nd:YAG ceramic media CM-P19; poster presentation	TIM 14 Physics Conference - Physics without frontiers, 20-22 November 2014, Timisoara, Romania	C. Vasilescu, T. Dascalu, G. Stanciu, N. Pavel, E. Vasile and R. Trusca
275.	Sm ³⁺ :YAG transparent ceramic P-18T; poster presentation	10th Laser Ceramics Symposium (LCS), 1-5 December, 2014, Wroclaw, Poland	F. Voicu, C. Gheorghe, S. Hau, L. Esposito, and J. Hostasa
276.	Tailored High-Intensity Multiple THz Pulses for Pump-Probe Experiments 20074; oral presentation	2014 Laser and Optoelectronics Conference (LOC 2014), 28-30 November, Beijing, China	T. Dascalu
277.	Infrared and near-infrared to visible and near-infrared up-conversion emission of Yb-Ln (Ln= Er, Tm) co-doped CeO ₂ nanoparticles for biological applications oral presentation	The 4th International Colloquium 'Physics of Materials' PM-4, 13-14 November 2014, Bucharest, Romania	D. Avram and C. Tiseanu
278.	Use of CETAL infrastructure to enhance RHA in support of ESA space mission	3rd IAA Conference on Space Systems as Critical Infrastructure, August 21-22, 2014, Mamaia, Romania	B. Mihalcea, A. Groza, C. Diplasu, A. Surmeian, O. Stoican, R. Vasilache, B. Cramariuc, O. Marghitu, M. Ganciu
279.	Confinement of charged micro and nanoparticles in multipole Paul trap	Physics of Materials, PM4 13-14.11.2014, Bucharest, Romania	B. Mihalcea, O. Stoican, C. Diplasu, G. Visan, A. Groza, A. Surmeian, O. Danila, L. Tudor, I. Barbut, P. Dinca, B. Butoi, A. Fazcas, M. Ganciu-Petcu
280.	Prospects of Space Radiation Environment Simulation by Using High Power Laser Infrastructures	INDLAS 2014 Conference, May 19-23, Bran, Romania	M. Ganciu, B. Mihalcea, C. Diplasu, A. Groza, C. Luculescu, O. Stoican, A. Surmeian, B. Cramariuc, R. Vasilache, O. Marghitu
281.	Prospects towards an optical system for trapping and cooling of 138Ba ⁺ ions at CETAL	INDLAS 2014 Conference, May 19-23, Bran, Romania	B. M. Mihalcea, D. Sporea, L. Mihai, G. Visan, A. Stancalie, M. Selagea, M. Ganciu
282.	Frequency locking of an optical system for cooling 138Ba ⁺ ions	3rd European Conference on Trapped Ions" (ECTI3), 14-19.09.2014, Mainz, Germany	Mihalcea B. M., Sporea D., Selagea M., Vişan G., Stăncălie A., Mihai L. and Ganciu M.
283.	Aplicații în industria spațială a laserilor de foarte mare putere	European Space Expo (19-27.04.2014), 26-th April 2014, Craiova, Romania	M. Ganciu, B. Mihalcea, C. Diplasu, C. Ticoş, R. Vasilache et al,

284.	Advanced Methods for Image Registration Applied to JET Videos	28th Symposium on Fusion Technology SOFT 2014, Sept.29 - Oct.3, San Sebastián, Spain - P1.068.	T. Craciunescu, A. Murari, M. Gelfusa, I. Tiseanu, V. Zoita, G. Arnoux
285.	Accurate 3D modeling of Cable in Conduit Conductor type superconductors by X-ray microtomography	28th Symposium on Fusion Technology SOFT 2014, Sept.29 - Oct.3, San Sebastián, Spain - P3.082.	I. Tiseanu, L. Zani, C.S. Tiseanu, T. Craciunescu, C. Dobrea
286.	JET Horizontal Gamma-Ray Spectrometer Upgrade for the alpha-Particle Diagnostic during the DT Campaign	27th Meeting of the ITPA Topical Group on Diagnostics ITER Organization, 3-7 November 2014, Cadarache, France	T. Craciunescu, V. Braic, R. Costa Pereira, M. Curuia, A. Fernandes, V. Goloborod'ko, G. Gorini, V. Kiptily, I. Lengar, K. Schoepf, S. Soare, Ł. Świderski, M. Tardocchi, V. Yavorskij, V. Zoita, I. Zychor
287.	Production and characterization of refractory metal coatings	Internațional Conference „Junior Euromat 2014”, 21-25 July 2014, Lausanne, Switzerland	M. Lungu, I. Tiseanu, T. Craciunescu, C. Dobrea, C. Porosnicu
288.	Plasma facing components analyzed by High Energy X-ray fluorescence method	PM-4 , 13 -14 November, 2014, Bucharest, Romania	M. Lungu, I. Tiseanu, C. Ruset, JET-EFDA Contributors
289.	Preparation and analysis of functional materials	14th IBWAP, Internațional Balkan Workshop on Applied Physics, 2-4 July 2014, Constantă, România	M. Lungu, C. Porosnicu, I. Jepu, P. Dinca, O. Pompilian, C. Dobrea, T. Craciunescu, I. Tiseanu,
290.	The structure of the tungsten coatings deposited by Combined Magnetron Sputtering and Ion Implantation for nuclear fusion applications	28th Symposium on Fusion Technology SOFT 2014, Sept.29 - Oct.3, San Sebastián, Spain - P3.882.	E. Grigore, C. Ruset, M. Gherendi, M. Rasinski, G. F. Matthews
291.	Combination of non-thermal plasma and ozonation for the degradation of endocrine disrupting compounds in water/oral	14th International Conference on Optimization of Electrical and Electronic Equipment OPTIM 2014, 22-24.05.2014, Brasov, Romania, Proceeding pag. 1047 – 1052, 2014, doi: 10.1109/OPTIM.2014.6850938; http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6850938	Combination of non-thermal plasma and ozonation for the degradation of endocrine disrupting compounds in water/oral
292.	Degradation of pharmaceutical compounds in water by non-thermal plasma treatment /invitat	22nd Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG 2014), 15-19.07.2014, Greifswald, Germania	Degradation of pharmaceutical compounds in water by non-thermal plasma treatment /invitat

293.	Degradation of parabens in water by corona discharge/oral	14th International Symposium on High Pressure Low Temperature Plasma Chemistry (HAKONE XIV), 21-26.09.2014, Zinnowitz, Germania	Degradation of parabens in water by corona discharge/oral
294.	Formation of oxidizers in corona discharge in contact with water and their reactions with organic pollutants/poster	14th International Symposium on High Pressure Low Temperature Plasma Chemistry (HAKONE XIV), 21-26.09.2014, Zinnowitz, Germania	Formation of oxidizers in corona discharge in contact with water and their reactions with organic pollutants/poster
295.	Optical and electrical properties of Nd doped ZnO thin films/poster	European Materials Research Society Spring Meeting (E-MRS 2014), 26-30 May 2014, Lille, France	Optical and electrical properties of Nd doped ZnO thin films/poster
296.	Growth and properties of Zn-Fe oxide thin films/poster	European Materials Research Society Spring Meeting (E-MRS 2014), 26-30 May 2014, Lille, France	Growth and properties of Zn-Fe oxide thin films/poster
297.	Effects of the anisotropy of pulsed energy beam deposition on ZnO thin film properties /poster	European Materials Research Society Spring Meeting (E-MRS 2014), 26-30 May 2014, Lille, France	Effects of the anisotropy of pulsed energy beam deposition on ZnO thin film properties /poster
298.	Optical and electrical properties of epitaxial indium oxide thin films/poster	Electroceramics XIV Conference, 15-20 June 2014, Bucharest, Romania	Optical and electrical properties of epitaxial indium oxide thin films/poster
299.	Metal-Insulator Transition in Oxygen Deficient Oxide Films/poster	Electroceramics XIV Conference, 15-20 June 2014, Bucharest, Romania	Metal-Insulator Transition in Oxygen Deficient Oxide Films/poster
300.	The effect of an obstacle in the ablation plasma on the electrical properties of the oxide thin films/oral	Proceedings of the 20th International Conference on Gas Discharges and their Applications 6-11 July 2014, Orleans (France); E-10, 518, 2014, ISBN 978-2-9548207-3-6	The effect of an obstacle in the ablation plasma on the electrical properties of the oxide thin films/oral
301.	Trajectory statistics and turbulence evolution	International Conference on Statistical Physics SigmaPhi-2014, Rhodes, Greece, July 7-12, 2014.	M.Vlad, F. Spineanu
302.	Comparative studies of the statistical and field theoretical descriptions of vorticity self-organization in two-dimensional fluids	International Conference on Statistical Physics SigmaPhi-2014, Rhodes, Greece, July 7-12, 2014, invited paper	F. Spineanu, M. Vlad,

303.	Core and SOL transport properties and turbulence self-organisation	AEA 25th Fusion Energy Conference, Saint Petersburg, Russia, 13-18 October 2014, TH/P5-11.	Ph. Ghendrih, C. Norscini, J. Abiteboul, T. Cartier-Michaud, G. Dif-Pradalier, Joao P. S. Bizarro, G. Ciruolo, P.H. Diamond, Y. Dong, D. Eiseve1, N. Fedorczak, E. Floriani, X. Garbet, V. Grandgirard, O.D. Gurcan, G. Latu, B. McMillan, P. Morel, C. Passeron, E. Sonnendrucker, Y. Sarazin, F. Spineanu, P. Tamain, M. Vlad, R. Vilela-Mendes and L. Villard
304.	Understanding momentum transport in tokamak plasmas,	IAEA 25th Fusion Energy Conference, Saint Petersburg, Russia, 13-18 October 2014, TH/P4-4.	Y. Sarazin, J. Abiteboul, G. Dif-Pradalier, B. McMillan, C. Bourdelle, T. Cartier-Michaud, P. Cottier, D. Estve, X. Garbet, J.B. Girardo, Ph. Ghendrih, V. Grandgirard, F. Hariri, G. Latu, D.E. Newman, C. Norscini, C. Passeron, J.M. Reynolds-Barredo, R. Sanchez, F. Spineanu, L. Villard and M. Vlad
305.	Nonlinear regimes in field line random walk in space plasmas	4th Ph.D Summer School-Conference on Mathematical Modeling of Complex Systems, Grecia, Atena, 14-25 Iulie, 2014.	M. Vlad, F. Spineanu, A. M. Croitoru
306.	Field Theoretical Modelling of Ring Vortices in 2D Flow	4th Ph.D Summer School-Conference on Mathematical Modeling of Complex Systems, Grecia, Atena, 14-25 Iulie, 2014.	F. Spineanu, M. Vlad, V. Baran
307.	2D coherent motion, Painleve III and Random Matrices	4th Ph.D. summer School - conference on "Mathematical Modeling of Complex Systems", 14-25 Iulie 2014, Atena, Grecia	Florin Spineanu; Madalina Vlad; Zubarev Alexei
308.	Self organization of avalanches in tokamak plasma: a turbulence perspective	Joint ICTP – IAEA College on Advanced Plasma Physics 18 – 29 August 2014, Trieste, Italia.	F. Spineanu, M. Vlad, D. Palade

309.	Still believe in low-order models?	Workshop Parameterization and Downscaling, Milano, January 29-30, 2014.	F. Spineanu, M. Vlad
310.	Effect of the density increase on confinement	19th Joint EU-US Transport Task Force Meeting, 8-11 Sept 2014, Culham, UK.	F. Spineanu, M. Vlad
311.	"Transport, ion trapping and turbulence evolution in ITER size plasmas"	19th Joint EU-US Transport Task Force Meeting, 8-11 Sept 2014, Culham, UK.	M. Vlad, F. Spineanu,
312.	THEORETIC ANALYSIS OF SPIROGRAPHENE QUANTUM DOTS,	EMRS 2014 Spring Meeting, 24 - 27 Mai 2014, Nice, France	A. Zubarev, A.-M. Iordache, I. Stomatin;
313.	SPIROGRAPHENE THE NEW EXOTIC MATERIAL	EMRS 2014 Spring Meeting, 24 - 27 Mai 2014, Nice, France	I. Stomatin, A. Zubarev, A.-M. Iordache,
314.	NANOCARBON SYNTHESIS BY ELECTRICAL DISCHARGE IN CARBON CONTAINING LIQUIDS	EMRS 2014 Spring Meeting, 24 - 27 Mai 2014, Nice, France	A.-M. Iordache, A. Zubarev, S.-M. Iordache, I. Stomatin, S. Stomatin
315.	Calculation of eddy currents in 3D thin multiply connected wall structures induced by a rotating plasma perturbation/lucrare invitata	International Symposium on Fundamentals on Electrical Engineering, 28-29 noiembrie, 2014, Bucuresti, Romania; Sesiunea ELMG2, Numar prezentare (ID) 178.	C.V. Atanasiu, L.E. Zakharov
316.	Non-linear Simulations of MHD Instabilities in Tokamaks including Dddy Currents Effects and Perspectives for Extension to Halo currents/poster	Theory of Fusion Plasmas, Joint Varenna-Lausanne International Workshop, 1-5 septembrie, 2014, Varena, Italia	M. Hoelzl, P. Merkel, G. Huysmans, C.V. Atanasiu, K. Lackner K, et al
317.	Dust removal from surfaces in a low pressure environment/oral	41 st EPS Conference on Plasma Physics, Berlin, Germany, 22-27 June 2014	C. M. Ticos, D. Toader, T. Chereches, P. Lixandru
318.	Penning discharge as an electron beam source/poster	INDLAS 2014; 19-23 mai, 2014, Bran, Romania;P37;	D. Toader, M.Oane, C.M. Ticos
319.	Coaxial plasma gun used in dusty plasma experiments/poster	INDLAS 2014; 19-23 mai, 2014, Bran, Romania;P38;	A. Scurtu, N. Banu, D. Toader, M.L. Munteanu, C. Ticos, M. Oane;
320.	Rotating dust rods in plasma between two equilibrium states/poster	INDLAS 2014; 19-23 mai, 2014, Bran, Romania;P39.	N.Banu, A. Onciu, A. Scurtu, M. Oane, C.M. Ticos;
321.	Plasma extracted electron beam characteristics/poster	INDLAS 2014; 19-23 mai, 2014, Bran, Romania;P40.	D. Toader, M. Oane, C.M. Ticos;
322.	The semi-analytical solution of non-Fourier heat equation for laser-solid interaction/poster	ISCP 2014, 23 – 26 Septembrie 2014, Orastie, Hunedoara,P12;	D. Toader, M. Oane, C.M. Ticos;

323.	Prospects of Space Radiation Environment; Simulation by Using High Power Laser Infrastructures/invited	INDLAS 2014; 19-23 mai, 2014, Bran, Romania;P 7.	M. Ganciu, B. Mihalcea, C. Diplasu, A. Groza, O. Stoican, A. Surmeian, C. Ticos, O. Marghitu, B. Cramariuc and R. Vasilache ,
324.	CETAL 1PW laser system status and laser developments roadmap for ELI-NP/invited	INDLAS 2014; 19-23 mai, 2014, Bran, Romania;P 3.	Ioan Dancus, Daniel Ursescu, Liviu Neagu, Mihail Cernaianu, Theodor Asavei, Aurelian Marcu, Florin Jipa, Ionut Nicolae, Gabriel Cojocaru, Romeo Banici, Razvan Ungureanu, Razvan Dabu, Catalin Ticos, Mihai Ganciu, Constantin Grigoriu, Ion Morjan, Sydney Gales, Victor Zamfir,
325.	Starch Modification by Electron Beam Processing for Use in the Wastewater Treatment/poster	The 8th International Conference on Modification, Degradation and Stabilization of Polymers (MoDeSt 2014), 31.08.–04.09.2014, Portoroz, Slovenia (P26); Book of Abstracts, p 137 , ISBN 978-961-281-511-0.	Braşoveanu,M.; Nemţanu, M.R.; Flore, L.; Anca, V.;"
326.	Degradation of Natural Polymers by Electron Beam Irradiation/poster	The 8th International Conference on Modification, Degradation and Stabilization of Polymers (MoDeSt 2014), 31.08.–04.09.2014, Portoroz, Slovenia (P52); Book of Abstracts, p 160, ISBN 978-961-281-511-0	Nemţanu, M.R.; Braşoveanu,M.;
327.	Electron beam flue gas treatment in the presence of fine water droplets/poster	14th International Balkan Workshop on Applied Physics, IBWAP 2014, 2-4 iulie 2014, Constanta, Romania, S2 P03.	Ighigeanu D; Calinescu I; Manaila E; Craciun G;
328.	Synthesis of a novel polyelectrolyte by copolymerization of acrylamide and acrylic acid by electron beam irradiation/poster	14th International Balkan Workshop on Applied Physics, IBWAP 2014, 2-4 iulie 2014, Constanta, Romania, S2 P04.	Craciun G; Ighigeanu D; Manaila E;
329.	Influence of absorbed dose on cross-link density of EPDM /TMPT rubber vulcanized by irradiatio/poster	14th International Balkan Workshop on Applied Physics, IBWAP 2014, 2-4 iulie 2014, Constanta, Romania, S2 P05.	Manaila E; Stelescu MD; Craciun G; Ighigeanu D;

330.	Influence of triallylcyanurate on cross-link density of ethylene-vinyl-acetate copolymer vulcanized by electron beam processing/poster	14th International Balkan Workshop on Applied Physics, IBWAP 2014, 2-4 iulie 2014, Constanta, Romania, S2 P06.	Manaila E; Stelescu MD; Craciun G; Ighigeanu D;
331.	Ionizing radiation effects on biogel used for serum protein electrophoresis/proceeding	5th International Conference on Advanced Materials and Systems, ICAMS 2014, 23-25 oct. 2014, Bucuresti, Romania, Proceedings, 285-290, 2014, ISSN 2068-0783.	Stelescu MD; Ighigeanu D; Stan D; Craciun G; Manaila E;
332.	Radiation vulcanization of natural rubber using TMPT as polyfunctional monomer/proceeding	5th International Conference on Advanced Materials and Systems, ICAMS 2014, 23-25 oct. 2014, Bucuresti, Romania, Proceedings, 379-384, 2014, ISSN 2068-0783.	Stelescu MD; Craciun G; Manaila E; Ighigeanu D;
333.	Synthesis and swelling properties of poly[acrylamide-co-acrylic acid] superabsorbents obtained by electron beam irradiation/proceeding	5th International Conference on Advanced Materials and Systems, ICAMS 2014, 23-25 oct. 2014, Bucuresti, Romania, Proceedings, 85-90, 2014, ISSN 2068-0783.	Manaila E; Craciun G; Ighigeanu D; Stelescu MD;
334.	Novel flocculants based on acrylamide and acrylic acid obtained by electron beam irradiation/proceeding	5th International Conference on Advanced Materials and Systems, ICAMS 2014, 23-25 oct. 2014, Bucuresti, Romania, Proceedings, 461-466, 2014, ISSN 2068-0783.	Manaila E; Craciun G; Ighigeanu D; Stelescu MD;
335.	Terbium-doped gadolinium oxysulfide (Gd ₂ O ₂ S:Tb) scintillation-based polymer optical fibre sensor for real time monitoring of radiation dose in oncology/oral	Conference on Optical Sensing and Detection III, 14-17, aprilie, Brussel, Belgia, 9141, 2014, 978-1-62841-089-1.	Lewis, E; O'Keeffe, S; Grattan, M; Hounsell, A; McCarthy, D; Woulfe, P; Cronin, J; Mihai, L; Sporea, D; Santhanam, A; Agazaryan, N
336.	Investigations on the use of UV optical fibers for X-ray dosimetry /poster	COST SYRA3 First Training School "Radiation Therapy with Synchrotron Radiation, ESRF Grenoble, Franta, 18 - 21, mai, 2014.	Mihai, L; Sporea, A; Sporea, D, Iovea, D.; Stefanescu, B; Porosnicu, I
337.	The ECSA project /oral	16th International Conference on Transparent Optical Networks (ICTON), Graz, Austria, iulie, 2014.	Sporea, D; Sporea, A; Mihai, L; Stancalie, A
338.	In-situ and satellite reflectance measurements for drought vegetation monitoring in Caracal study area /oral	Faculty of Physics' Annual Scientific Session, Magurele, Romania, iunie, 2014.	Mihai, L; STANCALIE, A; SPOREA, A; SPOREA, D; NERTAN, A; MIHAILESCU, D

339.	Prospects towards an optical system for trapping and cooling of $^{138}\text{Ba}^+$ ions at CETAL /oral	INDLAS 2014, Bran, Romania, mai, 2014	Mihalcea, B; Sporea, D; Mihai, L; Vişan, G; Stăncălie, A; Selagea, M; Ganciu. M
340.	Study of Low Clouds Radiative Forcing using MODTRAN 4 Model / oral	INDLAS 2014, Bran, Romania, mai, 2014	Mihai, L; Dogaru, D; Stefan, S; Ungureanu, I
341.	Dispersive elements for THz domain / oral	INDLAS 2014, Bran, Romania, mai, 2014	Damian, V; Bojan, M; Chioibas, G.D; Garoi, F; Logofatu, P.C; Mihai, L; Udrea, C; Urzica (Iordache), I; Vasile, T; Viespe, V
342.	Testing setups for mid-IR active and passive optical components / poster	INDLAS 2014, Bran, Romania, mai, 2014.	Sporea, D; Sporea, A; Mihai, L; Stancalie, A;
343.	Use of high resolution satellite data and in situ spectral measurements for crops state monitoring/invitat	EUMETSAT Meteorological Satellite, Geneva, 22-26 September 2014	Stancalie, G; A. Nertan; L.Mihai; A. Stancalie; D.Sporea
344.	Characterization of MIR optical materials in MI R and THz ranges/poster	4th Int Conf on Physics of Materials , Politehnica University, nov, 2014.	Mihai, L; A Stancalie; D Sporea; A Sporea
345.	Comparative assessment of equipments for optical fiber sensors evaluation /poster	4th Int Conf on Physics of Materials , Politehnica University, nov, 2014.	Stancalie, A; L Mihai; D Sporea; A Sporea
346.	Corn and sun-flower reflectance study using THz Imaging and UV-NIR spectro-radiometry /poster	ISCP, Orastie, Romania, septembrie, 2014.	Mihai, L; A. Stancalie; A. Sporea; D. Sporea
347.	NH_3 detection by Laser Spectroscopy: application in life sciences/ INVITED	International Conference on Laser Application in Life Sciences, 2014 June 29 - June 2, Ulm, Germany	G. Giubileo, A. Puu
348.	Lidar extinction measurement in the mid infrared/ oral presentation	20 th International Symposium on Atmospheric and Ocean Optics: Atmospheric Physics, Novosibirsk, Russian Federation, June 23, 2014	V. Mitev, S. Babichenko, R. Borelli, L. Fiorani, I. Grigorov, M. Nuoli, A. Palucci, M. Pistilli, A. Puu , O. Rebane, S. Santoro
349.	Potential of elemental analysis by LIBS in dental research/poster	International Conference on Modern Lasers, Bran, Romania 19-23 Mai 2014	Andrei Stancalie, Dan Sporea,Elena S. Preoteasa,Eugen A. Preoteasa, Ion N. Mihailescu
350.	Electron beam profile instrument based on FBGs /oral	Third Mediterranean Photonics Conference, 7-9 mai 2014, Trani, Italia	Dan Sporea, Andrei Stancalie, Nicu Becherescu, Martin Becker, Manfred Rthhardt

351.	On-line tests of an optical fiber long-period grating subjected to gamma irradiation/oral	Third Mediterranean Photonics Conference, 7-9 mai 2014, Trani, Italia	D. Sporea, A. Stancalie, D. Negut, G. Pilorget, S. Delepine-Lesoille, L. Lablonde,
352.	Application of EMI technique for characterization of composite adhesive bonds/oral	6th Int. Symposium on NDT in Aerospace, 12-14 November 2014, Madrid, Spain	P.H. Malinowski, T. Wandowski, A. Stancalie, W. A. Ostachowicz,
353.	Contribution to the analysis of the stress/strain influence on the electromechanical impedance measurement using FBG sensors/poster	TM COST Action 1001, Toulouse, oct 2014	A Stancalie, D Sporea, P Malinowski, Magdalena Mieloszyk, Szymon Opoka, Tomasz Wandowski, Wieslaw Ostachowicz
354.	Optical fiber sensors for radiation monitoring"– lucrare invitata	20th IMEKO TC-4 International Symposium on "Research on Electrical and Electronic Measurement for the Economic Upturn", 15-17.09.2014, Benevento, Italia	Sporea, D
355.	Optical fiber luminescence sensor for real-time radiotherapy dosimetry / oral	Final technical meeting COST Action TD1001, 30.09.2014-02.10.2014, Toulouse, Franta	O'Keeffe, S; McCarthy, D; Lewis, E; Sporea, D;
356.	Optics education in the frame of the "i-BEST" project / poster	International Conference "Modern Laser Applications" 4th Edition, 19-23.05.2014, Bran, Romania	Sporea, A.; Sporea, D; Iacob, C
357.	iBEST project promoting inquiry pedagogy"/ oral	International Conference Science Education in School, 10-11.04.2014, Galati, Romania	Sporea, A.; Sporea, D
358.	Romanian Policy on Teachers Training for Early Childhood Education / oral	INTCESS14- International Conference on Education and Social Sciences, 3-5.02.2014, Istanbul, Turcia	Sporea, D.; Sporea, A.
359.	Results of Romanian Teachers Survey on Assessment in Early Education	International Conference on Education and Psychological Sciences, 21-23.02.2014, Barcelona, Spania	Sporea, A.; Sporea, D.
360.	Field research on creativity development in science teaching - three case studies / oral	Conferinta internationala Creative Engagements. Thinking with children., 14-16.03.2014, Praga	Sporea, A.; Sporea, D.
361.	Test of mid IR components for space mission / poster	Conferinta internationala Mid-IR Optoelectronics : Materials and Devices, 5-9.10.2014, Montpellier, Franta	Sporea, D.; Sporea, A; Mihai, L.; Stancalie, A.

362.	Polyethylene glycol-silver nanocomposite material for antimicrobial applications - poster	E-MRS 2014 SPRING MEETING, 26-30 Mai 2014, Lille, France, cod G.PII. 25	Satulu V.; Mitu B.; Ion V.; Sarbu I.; Pelinescu D.; Dinescu G.
363.	Plasma based processes for synthesis of metal-polymer, nanocomposites - oral	The 14th International Balkan Workshop on Applied Physics and Materials Science, 2-4 Iulie 2014, Constanta, Romania, cod S2 OP01	Satulu V.; Mitu B.; Somacescu S.; Sarbu I.; Pelinescu D.; Dinescu G.
364.	Synthesis of tungsten clusters using magnetron sputtering gas aggregation source - poster	14th International Conference on Plasma Surface Engineering, 15 - 19 Septembrie 2014, Garmisch-Partenkirchen, Germania, cod PO4049	T. Acsente, R. Negrea, L.C. Nistor, G. Dinescu, C. Grisolia
365.	Comparative study of two similar form factor atmospheric plasma jet sources with and without dielectric barriers - poster	14th International Conference on Plasma Surface Engineering, 15 - 19 Septembrie 2014, Garmisch-Partenkirchen, Germania, cod PO3025	E. R. Ionita, M. Teodorescu, M. Bazavan, G. Dinescu
365.	Fabrication of nanostructured silicon surfaces by combining atmospheric pressure plasma etching and nanosphere lithography - oral	14th International Conference on Plasma Surface Engineering, 15 - 19 Septembrie 2014, Garmisch-Partenkirchen, Germania, cod OR0303	D. Kontziampasis, M. D. Ionita, M. Filipescu, A. Lazea-Stoyanova, B. Mitu, E. Gogolides, G. Dinescu
366.	Modification of carbon nanowalls by plasma jets submerged in liquids - poster	COST TD1208 Annual meeting, "Electrical discharges with liquids for future applications", 10-13 Martie 2014, Lisabona, Portugalia, WG4-3	S. Vizireanu, S.D. Stoica, M.D. Ionita, A. Lazea, G. Dinescu
367.	Influence of nozzle geometry on the properties of CNW synthesized in a plasma jet - poster	E-MRS 2014 Spring Meeting, 26-30 Mai 2014, Lille, Franta, cod G.PII. 24	S.D. Stoica, S. Vizireanu, C.R. Luculescu, B. Mitu, G. Dinescu
368.	Response of fibroblast cells on plasma modified nanostructured carbon surfaces - poster	BiomMedD'2014, 17-20 Septembrie 2014, Constanta, Romania, cod P112	S. Vizireanu, E.C. Stancu, D. Ionita, C. Luculescu, A.M. Stanciuc, L. Moldovan, G. Dinescu
369.	Properties of clusters obtained by condensation of tungsten sputtered atoms in an argon gas flow - poster	The XXII Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), 15-19 Iulie 2014, Greifswald, Germania, cod P3-07-03	T. Acsente, G. Dinescu, R. Negrea, L.C. Nistor, E. Matei, C. Grisolia
370.	Electrical characterization of a stable monofilamentary plasma jet - poster	The XXII Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), 15-19 Iulie 2014, Greifswald, Germania, cod P3-05-20	M. Teodorescu, E. R. Ionita, M. Bazavan, G. Dinescu

371.	Synthesis and properties of metallic particles obtained by a RF plasma jet operating from low to atmospheric pressure - poster	The XXII Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), 15-19 Iulie 2014, Greifswald, Germania, cod P3-07-01	A. Lazea-Stoyanova, M. Enculescu, V. Marascu, G. Dinescu
372	Tritium absorption and desorption in ITER relevant materials: comparative study of tungsten dust and massive samples - poster	21st International Conference on Plasma Surface Interactions, 26-30 Mai 2014, Ongaku-do, Kanazawa Ishikawa, Japonia, cod P1-022	C. Grisolia, E. Hodille, J. Chene, S. Garcia-Argote, G. Pieters, L. Marchetti, F. Martin, F. Miserque, D. Vrel, M. Redolfi, V. Mallard, G. Dinescu, T. Acsente, F. Gensdarmes, S. Peillon
373	Surface analysis of 2D nanomaterials obtained in RF plasma jet discharge - poster	The 4th International Colloquium "Physics of Materials" (PM-4), 13-14, noiembrie, 2014, Universitatea "Politehnica" Bucuresti, Romania; cod P-13	Mărăscu V; Barna E S; Stoica S D; Ioniță M D; Stoyanova-Lazea A; Dinescu G
374	Atmospheric plasma sources operated in radiofrequency for biomedical applications - oral	, JSPP2014 COST MP11011-Workshop, 19-23 Ianuarie 2014, Bohinjska,Bistrica, Slovenia	M. Teodorescu, E.R. Ionita, C.E. Stancu, C. Stancu, G. Dinescu
375	Modification of Track membranes in Plasma for Producing Micro- and Nanofluidic diodes - oral	, Int. Conf. Phys. Of Low. Temp. Plasma, ICLTP 2014, May 20 - 23, 2014, Kazan	L. Kravets, A. Gilman, M. Yablokov, V. Satulu, B. Mitu, G. Dinescu
376	Tailoring the morphological and electrical properties of thin films of tungsten oxide nanoparticles embedded in polyaniline matrix by MAPLE technique - poster	2014 Spring Meeting Lille, France – May 26th - 30th, SYMPOSIUM B Advanced functional materials, poster code B. PI 29	M. Filipescu, A. Palla-Papavlu, A. Matei, B. Mitu, V. Ion, F. Stokker-Cheregi, M. Dinescu
377	Laser printed thin films of organometallic and azo-derivative compounds for non-linear optical applications - poster	2014 Spring Meeting Lille, France – May 26th - 30th, SYMPOSIUM J: Laser interaction with advanced materials: fundamentals and applications, JP.VIII 22	Andreea Matei, Valentin Ion, Catalin Constantinescu, Bogdana Mitu, Iulian Ionita, Maria Dinescu, Ana Emami
378	Fatty acids/ layered double hydroxides (LDH) composite thin films deposited by MAPLE and PLD - poster	2014 Spring Meeting Lille, France – May 26th - 30th, SYMPOSIUM J: Laser interaction with advanced materials: fundamentals and applications, JP.XI 21	R. Birjega, A. Matei, B. Mitu, A. Vlad, M. Dinescu, R. Zavoianu, M. C. Corobea
379	Influence of Ni content on the properties of Ni-YSZ thin films obtained by Pulsed Laser Deposition - poster	2014 Spring Meeting Lille, France – May 26th - 30th, SYMPOSIUM J: Laser interaction with advanced materials: fundamentals and appl, JP.XI 40	R. Pascu, S. Somacescu, C. Hornoiiu, G. Epurescu, B. Mitu, M. Dinescu

380	Gadolinium doped Cerium oxide Yttria stabilized Zirconia layers grown by Pulsed Laser Deposition - poster	Electroceramics XIV Conference, June 16-20, 2014, Bucharest (Romania), ID poster Presentation: TF-25	R.Pascu, S. Somacescu, N. Cioatera, G. Epurescu, A. Andrei, D. Colceag, R. Birjega, C. Luculescu, B. Mitu, M. Dinescu
381	Spectral Diagnostics of the Pulsed High Voltage Generated Plasmas with Convenient Spectral Source	International Congress on Plasma Physics, Lisbon Portugal, 15–19 sept.2014	A.Surmeian, C. Diplasu, A.Groza, C. Atanasiu, M.Ganciu
382	The Features of the Polydimethylsiloxane Layers Generated on Aluminium Substrates in Corona Discharge	International Congress on Plasma Physics, Lisbon Portugal, 15–19 sept.2014	A. Groza, A.Surmeian, C. Diplasu, C.Luculescu, M.Ganciu
383	Pulsed Plasma Source for Enhanced Ion Implantation and Deposition	International Congress on Plasma Physics, Lisbon Portugal, 15–19 sept.2014	C. Diplasu, A. Surmeian, A. Groza, M. Ganciu
384	Prospects of Space Radiation Environment Simulation by Using High Power Laser Infrastructures	INDLAS Conference, 19-22 May 2014, Bran, Romania; I16	M. Ganciu, B. Mihalcea, C. Diplasu, C. Ticos, A. Groza, C. Luculescu, O. Stoican, A. Surmeian, B. Cramariuc, R. Vasilache, O. Marghitu
385	Use of the CETAL infrastructure to enhance Radiation Hardness Assurance (RHA) in support of ESA space missions	International Astronomical Union IAA3 Conference, 21-22 August 2014, Mamaia, Romania; session 2, No.3	B. M. Mihalcea, C. Diplasu, A. Groza, C. Luculescu, O. Stoican, A. Surmeian, M. Ticos, B. Cramariuc, R. Vasilache, O. Marghitu, and M. Ganciu,
386	GDOES and GDMS analytical systems, effective tools for characterization of conductive and nonconductive material surfaces	The 4th International Colloquium "Physics of Materials" (P III-4), November 13- 14 2014, Bucharest, Romania; P55	A.Surmeian, A.Groza, C.Diplasu, B.Mihalcea, O.Stoican, B.Butoi, O.Danila, P.Dinca, I.Barbut, L.Tudor, A.Fazacas, E. Diplasu, P. Chapon, M.Ganciu
387	Confinement of charged micro and nanoparticles in multipole Paul traps	The 4th International Colloquium "Physics of Materials" (P III-4), November 13- 14 2014, Bucharest, Romania O17	B.Mihalcea, O.Stoican, C.Diplasu, G.Visan, A.Groza, A.Surmeian, O.Danila, L.tudor, I.Barbut, P.Dinca, B.Butoi, A.Fazacas, M. Ganciu Petcu
388	Femtosecond laser pulse influence on binary mixed Be, W and C layers / poster	EMRS 2014 Spring Meeting, Lille, France / JP. WIII 14	C. P. Lungu, C. Porosnicu, I. Jepu, C. Ticos, P. Chiru, O. Pompilian, M.

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389	W-Mg alloy films deposited by tva on hydrogenated eurofer substrates for plasma facing components / oral	14th International Balkan Workshop on Applied Physics, 2-4 July 2014, Constanta, Romania / S1 OP01	Simona G. Greculeasa, P. Palade, G. Schinteie, A. Kuncser, A. Lungu, C. Porosnicu, I. Jecu, C.P. Lungu, G. Filoti, V. Kuncser
390	Periodic structures formation on beryllium, carbon, tungsten films mixed films by tw laser irradiation / poster	14th International Balkan Workshop On Applied Physics, 2-4 July 2014, Constanta, Romania / S2 L03	C. P. Lungu, C. M. Ticos, C. Porosnicu, I. Jecu, M. Lungu, P.Dinca, O. Pompilian, D. Ursescu, R. Banici, G. Cojocaru, R. Ungureanu, C. Luculescu, A. Marcu, R. Vladioiu, A. Marin, I. Feraru, C. Grigorescu
391	Preparation and analysis of functional materials / poster	M14th International Balkan Workshop on Applied Physics, 2-4 July, Constanta, Romania / S5 PO2	M. Lungu, C. Porosnicu, I. Jecu, P. Dinca, O. Pompilian, C. Dobrea, T. Craciunescu, I. Tiseanu
392	Periodic structures formation on beryllium, carbon, tungsten films mixed films by TW laser irradiation / poster	2014 Joint ICTP-IAEA Conference on Models and Data for Plasma-Material Interaction in Fusion Devices, 3–7 November 2014, International Centre for Theoretical Physics (ICTP), Trieste, Italy.	C. P. Lungu, A. Marcu, C. M. Ticos, C. Porosnicu, I. Jecu, M. Lungu, C. Luculescu, D. Ursescu, R. Banici, G. Ungureanu, C. E. A. Grigorescu, A. Marin
393	Deuterium doped beryllium films prepared by TVA / poster	21st International Conference on Plasma Surface Interactions 26-30 May 2014, Kanazawa / P1-010	C. Porosnicu, K. Sugiyama, C.P. Lungu, W. Jacob, I. Jecu, O.G. Pompilian, C. Stancu
394	Temperature influence on deuterium retention for Be-W mixed thin films prepared by Thermionic Vacuum Arc method exposed to PISCES B plasma / poster	21st International Conference on Plasma Surface Interactions 26-30 May 2014, Kanazawa / P2-090	I. Jecu, R.P. Doerner, M.J. Baldwin, C. Porosnicu, C.P. Lungu
395	Laser influence on multilayer Ag/Ni and Ag/Ce magnetic thin film structures prepared by Thermionic Vacuum Arc technology / oral	Advanced workshop in nanophysics and solar energy conversion, September 1-3, 2014, Magurele – Bucuresti, OP1	I. Jecu, D. Paul, O. G. Pompilian, C. Porosnicu, C. P. Lungu, C. Luculescu, G. Iacobescu, M. Osiac, V. Kuncser

396	Preparation and analysis of functional materials / poster	14th International Balkan Workshop on Applied Physics, 2-4 July, Constanta, Romania / S5 PO2	M. Lungu, C. Porosnicu, I. Jepu, P. Dinca, O. Pompilian, C. Dobrea, T. Craciunescu, I. Tiseanu
397	The relationship between gross and net erosion of beryllium at elevated temperature / poster	21st International Conference on Plasma Surface Interactions 26-30 May 2014, Kanazawa / P1-026	R. P. Doerner, I. Jepu, A. Lasa, D. Nishijima, K. Nordlund, E. Safi, T. Schwarz-Selinger
398	Pure and Rare-Earth Doped Gallium Lanthanum Sulphide Amorphous Thin Films Grown by Pulsed Laser Deposition in Various Temporal Regimes / oral	EMRS 2014 (J.VI.2)	G. Dascalu, O. G. Pompilian, I. Mihaila, S. Gurlui, P. Hawlova, P. Nemec, V. Nazabal, C. Focsa
399	Improved surface structure and chemical composition of Ge-Sb-Te thin films grown by femtosecond and picosecond PLD / poster	EMRS 2014 (JP.XI.33)	G. Dascalu, O. Pompilian, N. Cimpoesu, V. Nazabal, P. Nemec, P. Hawlova, B. Chazallon, S. Gurlui, C. Focsa
400	Space- and time-resolved optical emission spectroscopy of transient plasma generated by ns and fs laser ablation of Pr- and Er-doped GaLaS / poster	EMRS 2014 (JP.XV 41)	G. Dascalu, O. Pompilian, S. Gurlui, P. Nemec, C. Focsa
401	Clinical parameters – possible indicators of infection levels in a rabbit tibial osteomyelitis model	Rus-LASA – ICLAS International Conference “Science-based assessment of laboratory animal welfare” S. Petersburg, Rusia 17-19 Nov. 2014. Poster No. 4.	Surdu-Bob C, Coman C, Vlase E, Turcu D, Badulescu M
402	Biodegradable sensor for conductive materials	Electroceramics, 16-20 iunie 2014 Bucuresti. Poster No. TF 34.	C. Surdu-Bob, M. Badulescu
403	High Voltage Anodic Plasma: a tool for manufacturing Coated Organic Materials for Electromagnetic Screening	Physics of Materials Conference, Bucuresti 13-14 Nov. 2014. Poster No. 61	M. Badulescu, A. Anghel, C. Surdu-Bob C. Morari, M. Badic, I. Balan
404	Preventive treatment implant particles against osteomyelitis – an animal model	European Biotechnology Congress, Lecce Italia May 2014. Abstracts/Journal of Biotechnology vol. 185, pag S94, Poster No. 101	Surdu-Bob C, Coman C, Barbuceanu F, Vlase E, Popovici A, Turcu D, Badulescu M, Grosu F
405	Local treatment of induced chronic osteomyelitis in rabbit tibia – A comparative study.	European Biotechnology Congress, Lecce Italia May 2014. Abstracts/Journal of Biotechnology vol. Vol. 185, pag S96, Poster No. 157	Cristina Carmen Surdu Bob, Cristin Coman, Ene Vlase, Florica Barbuceanu, Andrei Popoviciu, Danut Turcu, Marius Badulescu

406	QUASI-MONOCROME LIGHT POLARIZATION STUDY IN BINARY ELECTROPOSITIVE - ELECTRONEGATIVE GAS MIXTURE/ poster	Quantum, Atomic, Molecular and Plasma Physics (QuAMP) Summer 2014, 15 -18 September 2014, Durham/Newcastle University, UK	C. L. CIOBOTARU , I. GRUIA C. GAVRILA
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1	Requesting, setup and follow-up for MC productions"	Analysis Tutorial Session of the ALICE Week Outside CERN, Primošten, Croatia, September 28 – October 3, 2014	C. Ristea, L. Betev, V. Kovalenko
2	Applications of chaos many-body engine for the analysis of relativistic nuclear collisions at 200 a gev/c / poster	Quark Matter 2014 - XXIV International Conference on Ultrarelativistic Nucleus-Nucleus Collisions, Darmstadt, Germany, May 19-24, 2014	I.V. Grossu, D. Felea, Al. Jipa, C. Besliu, E. Stan, O. Ristea, C. Ristea, M. Calin, T. Esanu, C. Bordeianu, N. Tuturas
3	Radio dichotomy in active galactic nuclei	The Strong Gravity Regime of Black Holes and Neutron Stars, Bad Honnef, Germany, 31 March - 4 April 2014	Dutan, I.; Caramete, L. I.; Rusu, D.
4	Radiation from accelerated particles in relativistic jets with shocks, shear-flow, and reconnection	American Astronomical Society, HEAD Meeting #14, Chicago, 17-21 August 2014	Nishikawa, K.-I.; Hardee, P.; Dutan, I.; Niemiec, J.; Medvedev, M.; Meli, A.; Mizuno, Y.; Nordlund, A.; Trier Frederiksen, J.; Sol, H.; Zhang, B.; Pohl, M.; Hartmann, D. H.
5	Spallation and burst – two paths of high - energy heavy ion interactions	26 th International Conference on Nuclear Tracks in Solids, KOBE, Japan, 15 th - 19 th September 2014	R. Brandt, E. Firu , M. Haiduc, A.T. Neagu, et al
6	The spectral response of CdS/CdTe photovoltaic cells with different TCO's	The 14 th International Balkan Workshop on Applied Physics, 2014 July, 2-4	A. Radu, Sorina Iftimie, L. Ion, Raluca Constantinean, Veta Ghenescu, M. Ghenescu, S. Antohe
7	Constraints on sterile neutrino dark matter production in the light of Planck	40 th COSPAR Scientific Assembly, 2-10 August 2014, Moscow, Russia	L. A. Popa
8	Micro black hole signatures in air, water and ice	Black Holes in a Violent Universe, 20 - 22 May, Potsdam, Germany	L. Caramete
9	Quantum black hole decay signatures in the UHECR data	Black Holes in a Violent Universe, 20 - 22 May, Potsdam, Germany	O. Micu
10	The Quantum Hoop Conjecture	1 st INFN FLAG Meeting "The Quantum and Gravity", University of Bologna, Italy, 25-20 Mai 2014	O. Micu

11	X _μ max vs. N _μ from Extensive Air Showers as estimator for the mass of primary UHECR's. Application for the Pierre Auger Observatory	CSSP14, Sinaia, Romania, 13-26 Iulie 2014	N. Arsene, O. Sima
12	Nuclearite analysis	Antares/KM3NeT Collaboration Meeting, Leiden, Olanda	G. Pavalas
13	On a time and space discretization for the nonlinear Boltzmann equation in an unbounded domain	CAIM 2014, 18 - 21 September, 2014, Bacau, Romania	C. P. Grünfeld, D. Marinescu
14	Urban area monitoring by sequential patterns extracted from multi-temporal satellite data using connectivity measures	International Geoscience and Remote Sensing Symposium 2014 (IGARSS'14), 13-18 July, Quebec, Canada	Julea Teodor, Valentin Poncos, C. Ionescu et al
15	Temperature driven crossover in the 1D Bose gas	Integrable Lattice Models and Quantum Field Theories, 28 June- 2 July, 2014 Bad Honnef (Germany)	O. I. Patu and Andreas Klumper
17	Auroral electrodynamics with Swarm – oral	3rd Swarm Science Meeting, Copenhaga, Danemarca, Iunie 2014	O. Marghitu, A. Blăgău
18	Multi-scale features of the auroral magnetosphere– ionosphere coupling – invited	11th AOGS Annual Meeting, Session ST15–08, Sapporo, Japonia, Iulie 2014	O. Marghitu
19	Low altitude signatures of multiple flow bursts in the magnetotail – oral	11th AOGS Annual Meeting, Session ST30, Sapporo, Japonia, Iulie 2014	R. Nakamura, O. Marghitu, T. Karlsson, M. Hamrin, H. Nilsson, O. Amm, C. Bunescu, V. Constantinescu, C. Forsyth, H. Frey, A. Keiling, M. Kubyshkina, J. Semeter, E. Sorbalo, J. Vogt
20	Magnetosphere– ionosphere coupling on multiple scales associated with magnetotail flow bursts: Event study – oral	AGU Chapman Conference on Low frequency waves in space plasmas, Jeju, Coreea de Sud, Septembrie 2014	O. Marghitu, J. Vogt, A. Keiling, R. Nakamura, T. Karlsson, M. Hamrin, O. Amm, H. Frey, C. Bunescu, E. Sorbalo, V. Constantinescu, H. Nilsson, J. Semeter

21	Magnetosphere–ionosphere coupling of global Pi2 pulsations – poster	AGU Chapman Conference on Low frequency waves in space plasmas, Jeju, Coreea de Sud, Septembrie 2014	A. Keiling, O. Marghitu, J. Vogt, O. Amm, C. Bunesco, V. Constantinescu, H. Frey, M. Hamrin, T. Karlsson, R. Nakamura, H. Nilsson, J. Semeter, E. Sorbalo
22	The CBM Time-of-Flight wall - a conceptual design–oral	12th Workshop on Resistive plate chambers and related detectors, Tsinghua Univ., Beijing, China, Februarie 2014	I. Deppner, N. Herrmann, A. Akindinov, D. Bartos, A. Balaceanu, S. Belogurov, P. Cao, G. Caragheor-gheopol, H. Chen, J. Cheng, M. Ciobanu, F. Constantin, Z. Deng, H. Deppe, V. Duta, H. Fan, H. Flemming, J. Fruhauf, J. Gebelein, K. Heidel, K. Hildenbrand, U. Keschull, M. Kis, S. Kiselev, K. Koch, P. Koczon, R. Kotte, A. Laso Garcia, J. Lehrbach, C. Li, Y. Li, P.-A. Loizeau, P. Lv, D. Malkevich, S. Manz, L. Naumann, A. Nedosekin, W. Niebur, A. Oancea, M. Petris, M. Petrovici, V. Plotnikov, M. Prokudin, L. Radulescu, M. Shao, V. Simion, C. Simon, R. Sultanov, Y. Sun, Z. Tang, Y. Wang, J. Wustenfild, C. Xiang, N. Xu, Y. Zhang, D. Zhoui and X. Zhuf
23	Large area continuous position sensitive diamond detector tests– oral	3rd ADAMAS Collaboration Meeting, European Centre for Theoretical Studies in Nuclear Physics and Related Areas, Trento, Italia, Noiembrie 2014, Online: http://www-adamas.gsi.de/index.php?mgid=6#ADAMAS03	M. Ciobanu, M. Pomorski, E. Berdermann, C. Bunesco, H. Comisel, V. Constantinescu, M. Kiš, O. Marghitu, M. Träger, K-O.Voss and P.Wieczorek
24	L2 FAC validation using three- and two-satellite gradient estimation techniques – oral	3rd Swarm Calibration/Validation Meeting, Copenhagen, June 2014	A. Blagau, J. Vogt, M. He, and E. Sorbalo

25	Comparison of gradient and FAC estimation techniques for Swarm - poster	ESA 3rd International Swarm Science Meeting, Copenhagen, June 2014	Vogt, J., E. Sorbalo, M. He, and A. Blagau
26	Validation of field-aligned current estimators using Swarm constellation methods - oral	4th Swarm Data Quality Workshop, Potsdam, December, 2014	Vogt, J., A. Blagau, and M. He
27	CIS Calibration Status & Action Items - oral	19th Cross-Calibration Meeting, ESRIN, Frascati, April 2014	I. Dandouras, A. Barthe, A. Blagau, L. Kistler, C. Mouikis
28	CIS Calibration Status & Action Items - oral	20 th Cross-Calibration Meeting, MPS, Göttingen, October 2014.	I. Dandouras, A. Barthe, H. Rème, A. Blagau, L. Kistler, C. Mouikis
29	Oxygen Ion Cyclotron Waves in the Outer Magnetosphere	Chapman Conference on Low Frequency Waves in Space Plasmas, Jeju, Corea de Sud.	O. D. Constantinescu, C. Bunesco
30	Low altitude magnetic field at the Moon: Artemis observations	Magnetometer Workshop, Jizercé, Republica Ceha	O. D. Constantinescu and K.-H. Glassmeier
31	Cluster FGM daily calibration	Magnetometer Workshop, Jizercé, Republica Ceha	O. D. Constantinescu, E. Liebert, and K.-H. Fornacon
32	Dispersion relations as a channel of plasma turbulence	11th AOGS Annual Meeting, Session ST15-08, Sapporo, Japonia, Iulie 2014	H. Comisel, U. Motschmann
33	In-House Magnetic Field Simulator for Cubesats	6th European CubeSat Symposium, Estavayer-le-Lac, Switzerland, oct. 2014	M. Balan, C. Dragasanu, M. Pripasu, S. Radu, C. Cherciu, M. Trusculescu

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

INFLPR

Nr. Crt.	Titlu	Operator economic	Nr. Contract/ Protocol
1.	Elaborarea si aplicarea unei tehnologii de durificare superficiala in plasma a suprafetelor interioare la cilindrii lungi (l<2,3 m) de la masinile de injectie material plastic;	SC ELUR SRL, Braila,	Contract Factura 200005/29.01.2014
2.	Tehnologie gaurire laser pt. tabla ol inox	Inst. Nat. de CD Turbomotoare COMOTI	Contract nr. 90/2014, Factura 200052/03.06.2014,
3.	Tehnologie gaurire laser 3 D pt. placi TiAlV	Inst. Nat. de CD Turbomotoare COMOTI	Contract nr. 105/2014, Factura 200150/23.07.2014
4.	Tehnologie debitare laser pt. elemente injectie mase plastice	SC Videli	Contract nr. 01/05.05.2014, Factura 200061/17.06.2014

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

Crt.	Titlu	Publicația oficială	Inventatorii/Titularii
1			
2			
3			
