RAPORT ANUAL DE ACTIVITATE

AL

INSTITUTULUI NAŢIONAL DE CERCETARE-DEZVOLTARE

PENTRU FIZICA LASERILOR, PLASMEI ŞI RADIAŢIEI

INCDFLPR

2016

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1. DATELE DE IDENTIFICARE ALE INSTITUTULUI

1.1. Denumirea

Institutul Naţional de Cercetare Dezvoltare pentru Fizica Laserilor Plasmei şi Radiaţiei.

1.2. Actul de înființare cu modificările ulterioare

INFLPR a devenit institut naţional de cercetare-dezvoltare în anul 1996 prin HG 1310/1996 şi reacreditat prin HG 1581/2004. Prin H.G. 1310/1996 s-a hotărât ca institutul să aibă ca filială cu personalitate juridică Institutul de Ştiinţe Spaţiale-ISS.

1.3. Numărul de înregistrare în registrul potențialilor contractori

1877

1.4. Adresa

Strada Atomiștilor Nr. 409, Măgurele, Județul Ilfov, România, RO 077125

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2. SCURTA PREZENTARE A INSTITUTULUI

2.1 Istoric

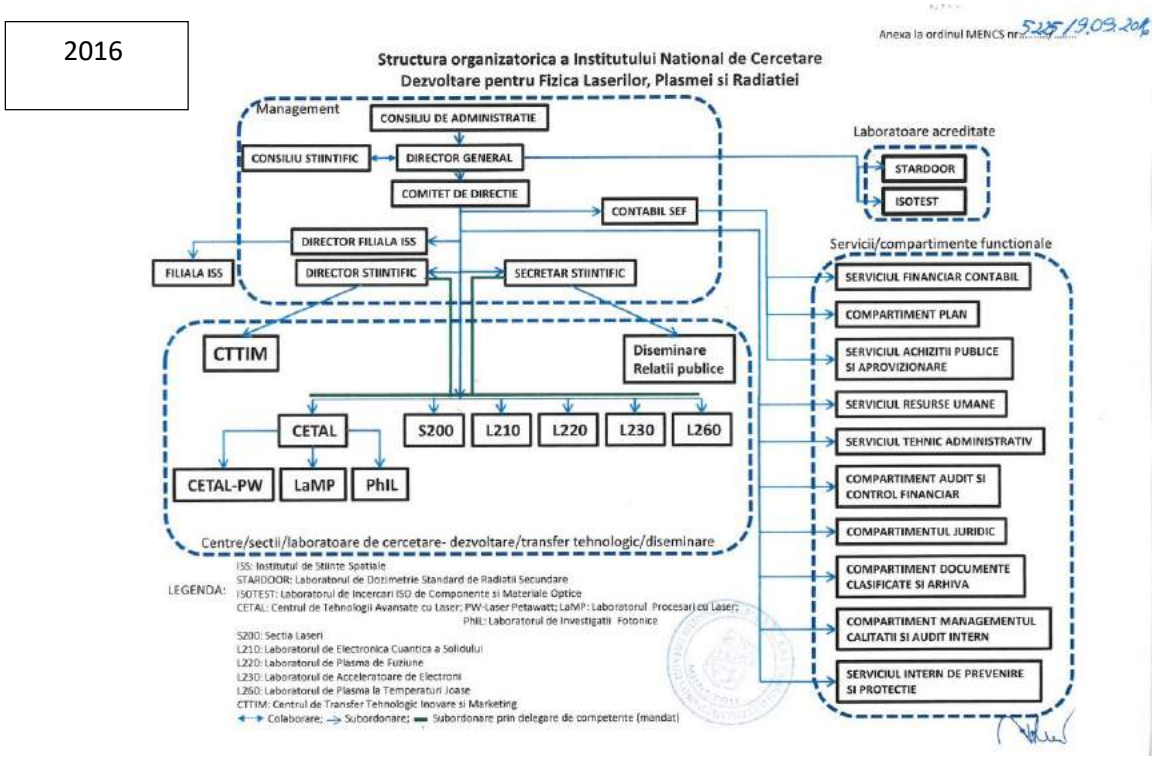
Institutul Naţional pentru Fizica Laserilor, Plasmei şi Radiaţiei este un institut de cercetare de nivel naţional stabilit prin hotărâre a Guvernului României în anul 1977.

Misiunea institutului constă în a conduce cercetări fundamentale şi aplicative la nivel naţional şi internaţional în domeniile fotonicii, plasmei, acceleratoarelor de electroni. Institutul a fost reorganizat în 1996 când Institutul de Ştiinţe Spaţiale (ISS) a devenit filială a INFLPR în conformitate cu Hotărârea Guvernului României Nr. 1310/1996, ca unitate cu personalitate juridică, rezultat în urma reorganizării şi unificării IFTAR şi IGSS.

Continuând o tradiţie de peste 40 de ani în domeniul cercetărilor de fizică, Institutul Naţional de Fizica Laserilor, Plasmei şi Radiaţiei (INFLPR) are că obiect principal de activitate efectuarea de cercetări fundamentale, aplicative şi dezvoltare tehnologică în domeniile: fizica laserilor, electronică cuantică a solidului, fizica plasmei, fizica fasciculelor de electroni precum şi fizica spaţiului cosmic.

2.2. Structura organizatorică (organigrama, filiale, sucursale, puncte de lucru) INFLPR

Structura organizatorică a INFLPR stabilită prin HG 1581/2004 prevede că Institutul de Stiinte Spatiale este filială cu personalitate juridică a INFLPR. INFLPR nu are puncte de lucru și nici sucursale.



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 structurală, spectroscopică şi compoziţională a mediilor active laser, structuri optice nelineare, optică şi informaţie cuantică, pulsuri ultra scurte de mare intensitate, cristale fotonice şi metamateriale;
- Fizica plasmei: fizica plasmelor pulsate magnetizate, fizica arcului termoionic, fizica plasmelor reci la presiune joasă și atmosferică, modelarea magnetohidro-dinamică a plasmelor, fizica fluidelor, fuziune termonucleară, stocare de particule încărcate, dinamica plasmelor tokamak;
- Fizica radiaţiilor: fizica acceleratoarelor de electroni, fizica interacţiunii particulelor încărcate cu ţinte biologice, fizica radiaţiilor X, fizica accelerării particulelor în câmp laser, fizica radiaţiilor THz;

- Ştiinţele nano: nanofotonică, nanometrologie, puncte cuantice, fotochimie laser, fizica suprafeţelor şi plasmonica;
- Fizică spațială: fizica radiaţiilor cosmice, astrofizică nucleară şi particule, plasmă spaţială si magnetometrie, cosmologie, fizică şi astrofizică teoretică, fizică matematică, gravitaţie şi microgavitaţie.

Cercetare aplicativă

- Tehnologii laser avansate: materiale biocompatibile, nanopicături pentru medicină, noi tipuri de materiale pentru celule solare, senzori produşi prin tehnici fotonice, micro-nanoprelucrări cu laser, nanometrologie;
- Cercetare aplicativă în/pentru plasme fierbinți: aliere superficială, tratamente termochimice în plasmă; materiale pentru primul perete al plasmelor de fuziune;
- Aplicații ale plasmelor de temperatură joasă: materiale nanostructurate şi compozite, suprafețe sterile în plasmă, suprafețe biocompatibile, funcționalizarea suprafeţelor pentru cultura celulelor, imobilizarea proteinelor, sisteme plasmo-catalitice pentru distrugerea poluanților organici din aer şi apă, structuri quantum-well bazate pe DLC;
- Nanotehnologii: metamateriale, senzori SAW, fluide magnetice;
- Radiaţii şi particule accelerate: Tomografia de transmisie de raze X pentru măsuratori dimensionale, Micro-tomografie fluorescenţ[de raze X, iradieri complexe dedicate aplicațiilor in medicină, biologie, conservarea şi protecția mediului;
- Sisteme avansate de comunicații: tehnologii GRID, optimizarea transferului de date.

b. domenii secundare de cercetare

Dezvoltare tehnologică

- Realizare modele experimentale şi prototipuri: detectori avansaţi de agenţi chimici;
- Elaborare tehnologii: straturi de biosticle obținute prin tehnologii laser pentru componentele protezelor ortopedice, tehnologii de tratare a materialelor bazate pe iradierea cu electroni, tehnologii de tratare a suprafețelor și funcționalizare în plasmă, tehnologie de depunere beriliu, tehnologii de depunere W;
- Standardizare în domeniul aparaturii spaţiale;

c. servicii/microproducție

Servicii de specialitate:

- Furnizarea de fascicule de particule accelerate (electroni);
- Furnizarea de fascicule laser de mare putere (17TW);
- Tratamente de produse şi materiale prin iradiere cu electroni;
- Metrologie legală în domeniul fascicolelor laser;
- Microtomografie de raze X;
- Pregătire şi specializare în domeniul laseri, plasmă;
- Design şi execuţie aparate laser.

Microproducție

- Durificarea suprafeţelor în plasmă;
- Tratamente de nitrurare ionică şi PASK (Plasma AntiStiKing);
- Acoperiri speciale cu W şi Be folosind tehnologii proprii pentru instalaţiile de fuziune nucleară tokamak (JET – Joint European Torus), UK si ASDEX Upgrade, Germania.

Alte servicii

- Elaborarea de studii, programe şi strategii de cercetare-dezvoltare.

2.5. Modificări strategice în organizarea si funcționarea institutului

În anul 2016 nu au fost înregistrate modificari strategice (fuziuni, transformări, divizări) în organizarea şi funcționarea institutului.

3. STRUCTURA DE CONDUCERE A INSTITUTULUI

3.1. Consiliul de administratie

Consiliul de administraţie este format din 7 membri: Directorul general (Preşedintele CA), Preşedintele Consiliului Ştiințific, Reprezentantul ANCSI, Reprezentantul Ministerului Finanţelor Publice, Reprezentantul Ministerului Muncii și Justiției Sociale, 2 specialiști în domeniul de activitate al INFLPR.

3.2. Directorul general

Dr. Traian DASCĂLU

3.3. Consiliul științific

Consiliul ştiințific este format din 25 membri.

3.4. Comitetul director

Comitetul de Direcție este format din 11 membri.

4. SITUAȚIA ECONOMICO-FINANCIARĂ A INSTITUTULUI

4.1. Patrimoniul stabilit pe baza situației financiare anuale la 31 Decembrie 2016

Conform situaţiei financiare anuale preliminate, patrimoniul institutului este în valoare totală de 112.375.418 lei, în creştere cu 1.904.242 lei fată de patrimoniul din anul 2015.

TABEL #1. Patrimoniul INFLPR și filiala ISS.

INFLPR și filiala ISS	2016 (lei)	2015 (lei)
ACTIVE IMOBILIZATE	**90.512.502**	**93.815.739**
Imobilizări corporale	89.862.942	93.349.169
Imobilizări necorporale	649.360	465.642
Imobilizări financiare	200	928
ACTIVE CIRCULANTE	**21.857.863**	**16.653.229**
Stocuri	727.882	538.256

Creanţe	5.247.050	4.507.189
Casa și conturi curente la bănci	15.882.931	11.604.784
Cheltuieli în avans	5053	5208
TOTAL PATRIMONIU INFLPR + ISS	**112.375.418**	**110.471.176**

TABEL #2. Patrimoniul INFLPR.

INFLPR	2016 (lei)	2015 (lei)
ACTIVE IMOBILIZATE	**81.258.541**	**84.817.380**
Imobilizări corporale	80.730.226	84.395.143
Imobilizări necorporale	528.315	422.237
ACTIVE CIRCULANTE	**17.382.689**	**12.864.106**
Stocuri	174.721	368.407
Creanţe	3.712.673	3.724.989
Casa și conturi curente la bănci	13.495.295	8.770.710
TOTAL PATRIMONIU INFLPR	**98.641.230**	**97.681.486**

TABEL #3. Patrimoniul filialei ISS.

ISS	2016 (lei)	2015 (lei)
ACTIVE IMOBILIZATE	**9.253.961**	**8.998.359**
Imobilizări corporale	9.132.716	8.954.026
Imobilizări necorporale	121.045	43.405
Imobilizari financiare	200	928
ACTIVE CIRCULANTE	**4.475.174**	**3.786.123**
Stocuri	553.161	169.849
Creanțe	1.534.377	782.200
Casa și conturi curente la bănci	2.387.636	2.834.074
Cheltuieli în avans	5053	5208
TOTAL PATRIMONIU filiala ISS	**13.734.188**	**12.789.690**

4.2. Venituri totale; 4.3 Cheltuieli totale; 4.4 Profit brut; 4.5 Pierderea brută; 4.6. Situația arieratelor

Veniturile totale ale institutului pentru anul 2016 au fost în valoare de **83.640.754lei**.
Cheltuielile totale au fost în valoare de **83.613.611 lei**.
Profitul brut realizat de institut a fost în valoare de **27.143 lei**.
La data de 31.12.2016 institutul NU înregistrează arierate, datoriile institutului reprezintă datorii curente.
Componența veniturilor, cheltuielilor şi profitului brut este prezentată în tabelele următoare.

TABEL #4. Venituri totale, cheltuieli totale, profit/pierdere INFLPR şi filiala ISS.

Venituri totale INFLPR şi filiala ISS	2016 (lei)	2015 (lei)
Venituri totale , din care:	**83.640.754**	**72.289.997**
Venituri realizate prin contracte de cercetare-dezvoltare finanțate din fonduri publice, din care:	70.050.147	58.817.024
Venituri realizate prin contracte de cercetare-dezvoltare naţionale finanţate de la bugetul de stat	65.378.300	54.753.554
Venituri realizate prin contracte de cercetare-dezvoltare internaţionale finanţate din fonduri publice	4.671.848	4.063.470
Venituri realizate din activități economice (servicii, microproducție, exploatarea drepturilor de PI)	92.828	88.566
Cheltuieli totale	**83.613.611**	**72.267.607**
Profit brut	**27.143**	**22.390**
Pierderea brută	**0**	**0**

TABEL #5. Venituri totale, cheltuieli totale, profit/pierdere INFLPR.

INFLPR	2016 (lei)	2015 (lei)
Venituri totale, din care:	**66.704.400**	**56.108.766**
Venituri realizate prin contracte de cercetare-dezvoltare finanțate din fonduri publice, din care:	54.663.997	43.846.777
Venituri realizate prin contracte de cercetare-dezvoltare naţionale finanţate de la bugetul de stat	51.657.946	41.711.898
Venituri realizate prin contracte de cercetare-dezvoltare internaţionale finanţate din fonduri publice	3.006.051	2.134.879
Venituri realizate din activitati economice (servicii, microproductie, exploatarea drepturilor de proprietatea intelectuala)	63.355	72.437
Cheltuieli totale	**66.689.553**	**56.095.855**
Profit brut	**14.847**	**12.911**
Pierderea bruta	**0**	**0**

TABEL #6. Venituri totale, cheltuieli totale, profit/pierdere filiala ISS.

ISS	2016 (lei)	2015 (lei)
Venituri totale , din care:	**16.936.354**	**16.181.231**
Venituri realizate prin contracte de cercetare-dezvoltare naţionale finanţate din fonduri publice, din care:	15.386.150	14.970.247
Venituri realizate prin contracte de cercetare-dezvoltare naţionale finanţate de la bugetul de stat	13.720.354	13.041.656

Venituri realizate prin contracte de cercetare-dezvoltare internaţionale finanţate din fonduri publice	1.665.797	1.928.591
Venituri realizate din activitaţi economice (servicii, microproductie, exploatarea drepturilor de proprietatea intelectuala)	29.473	16.129
Cheltuieli totale	**16.924.058**	**16.171.752**
Profit brut	**12.296**	**9.479**
Pierderea brută	**0**	**0**

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

Având ca obiectiv principal optimizarea constituirii şi utilizării resurselor economico-financiare, respectiv maximizarea valorii institutului, dezvoltarea durabilă şi creşterea performanţelor, INFLPR a continuat în anul 2016 implementarea politicilor economice şi sociale începute în anii precedenţi:

- Modernizarea şi diversificarea bazei materiale de cercetare—dezvoltare reflectată prin creşterea gradului de reînnoire; **Valoarea echipamentelor achizitionate in institut in anul 2016 este de 10.404.219 lei din care 8.485.361 lei in INFLPR si 1.918.858 lei in filiala ISS:**
- Creşterea şi diversificarea activității de cercetare dezvoltare materializată prin evoluţia mărimii şi structurii cifrei de afaceri;
- Creşterea ponderii veniturilor obţinute din fonduri internaţionale de cercetare;
- Valorificarea rezultatelor cercetării şi introducerea acestora în economie prin transfer tehnologic;
- Acordarea, conform CCM şi a posibilităţilor financiare, a tichetelor de masă.

4.8. Evoluția performanței economice

Evoluția indicatorilor economici pentru perioada 2015-2016 este prezentată în tabelele următoare.

TABEL #7. Evoluția indicatorilor economici INFLPR și filiala ISS.

Indicator INFLPR şi filiala ISS	*Sume(lei)*	
	2016	2015
Total active imobilizate	90.512.502	93.815.739
Total active circulante	21.857.863	16.632.229
TOTAL PATRIMONIU	**112.375.418**	**110.471.177**
Venituri totale	83.640.754	72.289.997
Cheltuieli totale	83.613.611	72.267.607
Profit brut	27.143	22.390

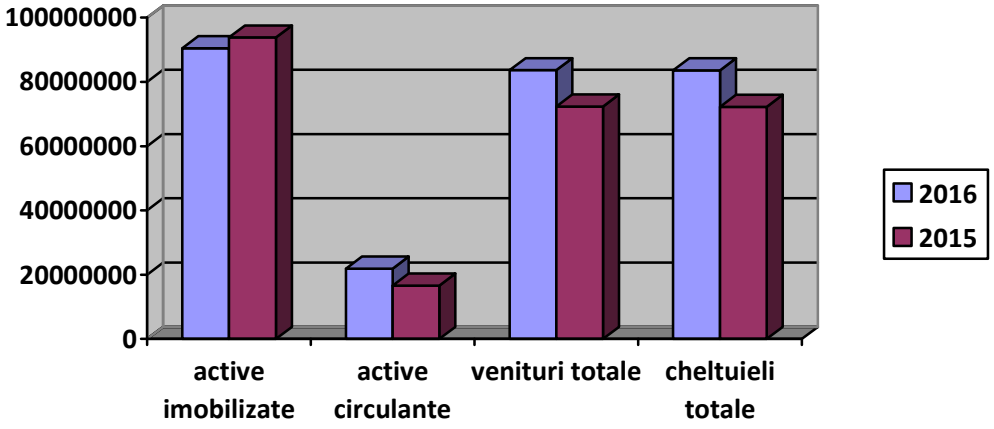
TABEL #8. Evoluția indicatorilor economici INFLPR.

Indicator (INFLPR)	*Sume(lei)*	
	2016	2015
Total active imobilizate	81.258.541	84.817.380

Total active circulante	17.382.689	12.864.106
TOTAL PATRIMONIU	**98.641.230**	**97.681.486**
Venituri totale	66.704.400	56.108.766
Cheltuieli totale	66.689.553	56.095.855
Profit brut	14.847	12.911

TABEL #9. Evoluția indicatorilor economici filiala ISS.

Indicator (ISS)	*Sume(lei)*	
	2016	2015
Total active imobilizate	9.253.961	8.998.359
Total active circulante	4.475.174	3.786.123
TOTAL PATRIMONIU	**13.734.188**	**12.789.691**
Venituri totale	16.936.354	16.181.231
Cheltuieli totale	16.924.058	16.171.752
Profit brut	12.296	9.479



Evoluția indicatorilor economici pentru perioada 2015-2016 INFLPR şi filiala IS

5. STRUCTURA RESURSEI UMANE DE CERCETARE-DEZVOLTARE

5.1. Total personal din care:

a. personal de cercetare-dezvoltare atestat cu studii superioare 2016/2015

INFLPR şi filiala ISS: 341/345

Tabel #10. Structura personalului pe grade profesionale INFLPR şi filiala ISS

An	Total Personal INFLPR	Total pers.cercetare dezv.cu studii sup.	Personal cercetare dezvoltare atestat cu studii superioare				Personal cercetare dezvoltare cu studii superioare			Personal auxiliar
			CSI	CSII	CSIII	CS	ACS	IDT	IDTI	
2016	**490**	**341**	**61**	**38**	**121**	**82**	**38**	**0**	**1**	**149**

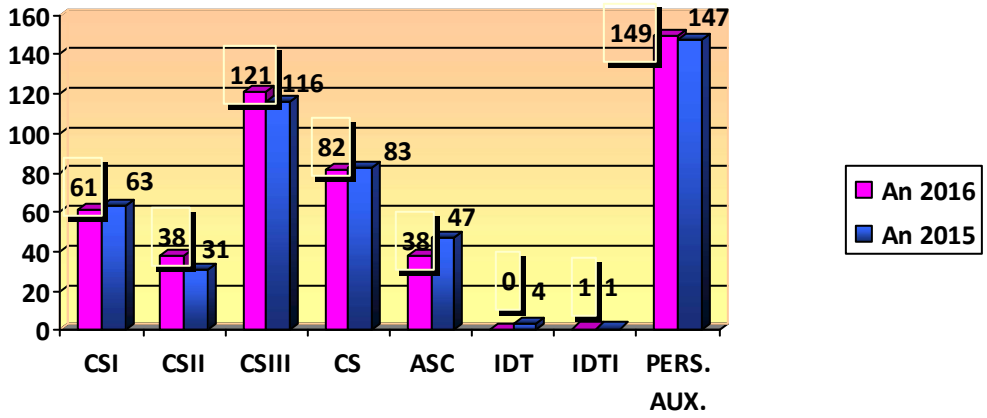
2015	492	345	63	31	116	83	47	4	1	147

Tabel #11. Structura personalului pe grade profesionale INFLPR

An	Total Personal INFLPR	Total pers.cercetare dezv.cu studii sup.	Personal cercetare dezvoltare atestat cu studii superioare				Personal cercetare dezvoltare cu studii superioare			Personal auxiliar
			CSI	CSII	CSIII	CS	ACS	IDT	IDTI	
2016	**362**	**246**	**47**	**33**	**71**	**68**	**27**	**0**	**0**	**116**
2015	367	252	51	26	75	64	32	4	0	115

Tabel #12. Structura personalului pe grade profesionale filiala ISS

An	Total Personal INFLPR	Total pers.cercetare dezv.cu studii sup.	Personal cercetare dezvoltare atestat cu studii superioare				Personal CDI cu studii superioare			Personal auxiliar
			CSI	CSII	CSIII	CS	ASC	IDT	IDTI	
2016	**128**	**95**	**14**	**5**	**50**	**14**	**11**	**0**	**1**	**33**
2015	125	93	12	5	41	19	15	0	1	32

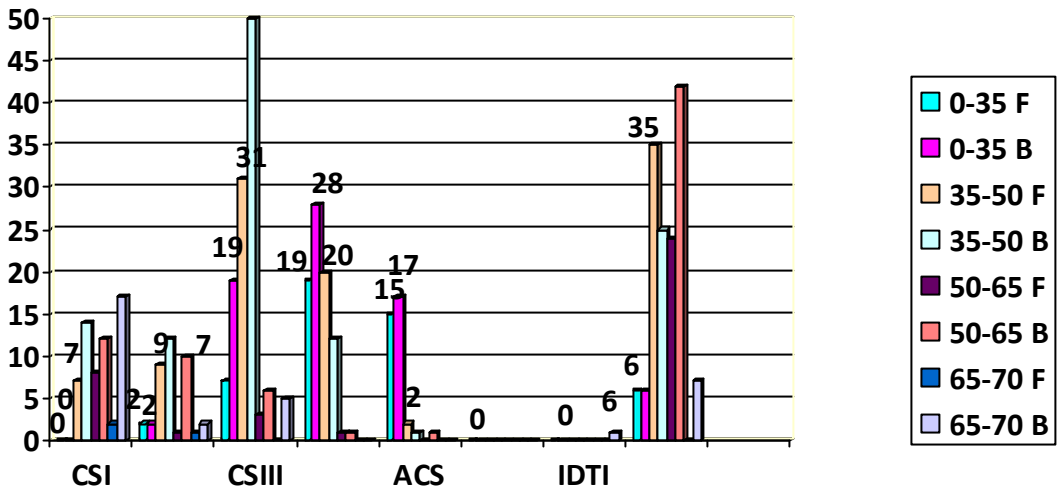


Structura personalului pe grade profesionale INFLPR şi filiala ISS 2016/2015

TABEL#13: Structura personalului pe categorii de vârstă INFLPR şi filiala ISS

Personal cercetare-dezvoltare cu studii superioare									Personal auxiliar	
Interval vârstă	sex	CSI	CSII	CSIII	CS	ACS	IDT	IDTI	Interval vârstă	
<35	**F**	0	2	7	19	17	0	0	**<35**	6
<35	**M**	0	2	19	28	17	0	0	**<35**	6
35-50	**F**	7	9	31	20	2	0	0	**35-50**	35
35-50	**M**	14	12	50	12	1	0	0	**35-50**	25
50-65	**F**	8	1	3	1	0	0	0	**50-65**	24
50-65	**M**	12	10	6	1	1	0	0	**50-65**	42
>65	**F**	3	2	0	0	0	0	0	**>65**	0
>65	**M**	17	2	5	0	0	0	1	**>65**	7

Total	**61**	**39**	**121**	**82**	**38**	**0**	**1**	**Total**	**149**
Total cercetare-dezvoltare: 341								**Total auxiliar : 149**	
TOTAL PERSONAL INFLPR şi filiala ISS: 483									



Structura personalului pe categorii de vârstă INFLPR 2016

b. număr conducători de doctorat 2016/2015

INFLPR şi filiala ISS: 10/9

c. număr de doctori 2016/2015

INFLPR şi filiala ISS: 242 /236

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

În anul 2016, un număr de 61 persoane au fost implicate in activitatile de perfectionare ale resursei umane. (vezi lista nr.1, pagina 38)

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

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

1. Atragerea și selecția riguroasă (la angajare) a personalului științific.
2. Motivarea personalului, prin:
   - procesul de perfecționare continuă a pregătirii;
   - flexibilitatea încadrării în activitatea institutului, în funcție de aptitudini și dorințe personale;

- recompensele materiale și morale, în particular promovarea profesională.

3. Deschiderea spre comunicare și cooperare în interiorul și exteriorul institutului.

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

- Imaginea generală a institutului, ca organizație CD performantă, compatibilă cu standardele internaționale;
  - Tematica de cercetare atractivă, la nivel internațional, corelată cu prioritățile de cercetare pe plan național și internațional (în principal – european, în cadrul UE).
  - Condiții atractive de muncă (infrastructură de cercetare performantă, posibilități de specializare, sistemul de salarizare stimulativ etc.
- Încurajarea și sprijinirea tinerilor angajati se face, printre altele, prin asigurarea condițiilor de lucru pentru partea experimentală a programului de doctorat, dar și pentru derularea propriilor propuneri de proiecte;
- Atragerea de tineri absolvenți cu studii superioare se desfașoară în mod constant prin activități didactice care se desfașoară în institut (cursuri şi laboratoare de specialitate, practică de vară, pregătirea unor lucrari de diplomă și dizertații de master);
- Toți cercetătorii sunt încurajați să participe la programele de cercetare prin propuneri de proiecte noi în colaborare cu mediul academic şi industrial;
- Promovarea tuturor categoriilor de cercetători se face prin concurs, ori de câte ori lucrul acesta este posibil, chiar și în condițiile în care disponibilitățile financiare ale institutului sunt mai reduse.

6. INFRASTRUCTURA DE CERCETARE-DEZVOLTARE, FACILITĂȚI DE CERCETARE

6.1. Laboratoare de cercetare-dezvoltare 2016/2015 INFLPR si filiala ISS: 14/12

Laboratoare de cercetare-dezvoltare INFLPR

- Secția Laseri
- Laboratorul de Electronică Cuantică a Solidului
- Laboratorul de Fizica Plasmei şi Fuziunii Nucleare
- Laboratorul de Acceleratori de Electroni
- Laboratorul Plasmă de Temperaturi Joase
- Centrul de Tehnologii Avansate cu Laser
  - Laser Petawatt (CETAL-PW)
  - Laboratorul Procesări cu Laser (LaMP)

- Laboratorul de Investigații Fotonice (PhIL)

Laboratoare de cercetare-dezvoltare filiala ISS

- Laborator de astrofizică, fizica energiilor înalte și tehnologii avansate
- Laborator de gravitație, microgravitație și nano sateliți
- Laborator aplicații spațiale pentru sănătate și securitate
- Laborator plasmă spațială si magnetometrie
- Laborator fizică teoretică
- Laborator cosmologie și fizica astroparticulelor

6.2. Laboratoare de încercări acreditate/neacreditate, 2016/2015

Laboratoare acreditate: 0/0

Laboratoare neacreditate: 2/2 (2 INFLPR)

- **Laborator ISOTEST-Facilitate pentru diagnoza de fascicul laser si caracterizare / certificare ISO a comportării componentelor optice / materialelor sub acțiunea fasciculelor laser de mare putere**
- **Laborator STARDOOR –Dozimetrie la energii inalte**

6.3. Instalații și obiective speciale de interes național 2016/2015: 3/3

Instalații de Interes Național din cadrul Laboratorului Acceleratoare de Electroni:

- Accelerator linear de 10 MeV - ALIN-10;(INFLPR)
- Accelerator linear de 7 MeV - ALID- 7.(INFLPR)
- Rețea GRID (filiala ISS)

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

- Deschiderea pentru utilizatorii din comunitatea ştiinţifică şi IMM-uri a facilităţii CETAL;
- Dezvoltarea de parteneriate la nivel naţional şi internaţional (cu personalităţi/ instituţii / asociaţii profesionale) în vederea participării la programele CDI naţionale şi europene specifice domeniului de activitate;
- Angajarea de personal specializat în managementul proiectelor;
- Creşterea vizibilităţii institutului, a infrastructurii de cercetare şi a personalului prin continuarea participării în reţele europene de cercetare (EURATOM, LASERLAB, COST, FAIR, IUCN-DUBNA) ;
- Înscrierea INCD în baze de date internaţionale care promovează parteneriatele;

- Înscrierea INCD ca membru în reţele naţionale de cercetare, membru în asociaţii profesionale de prestigiu pe plan naţional şi internaţional.

7. REZULTATELE ACTIVITĂȚII DE CERCETARE-DEZVOLTARE

7.1. Structura rezultatelor de cercetare realizate

Tabel #14. Rezultate INFLPR și filiala ISS 2016/2015

		INFLPR si filiala ISS 2016	INFLPR si filiala ISS 2015
7.1.1	**Lucrări științifice și tehnice în reviste de specialitate cotate ISI**	**406**	432
7.1.2	**Factor de impact cumulat al lucrărilor cotate ISI**	**1079.044**	1023.148
7.1.3	**Citări în reviste de specialitate cotate ISI**	**9168**	6471
7.1.4	**Brevete de invenție (solicitate/acordate)**	**17/3**	26/11
7.1.5	**Citări în sistemul ISI al cercetărilor brevetate**	**0**	0
7.1.6	**Produse/servicii/tehnologii rezultate din activitățile de cercetare bazate pe brevete, omologări sau inovații proprii**	**4/3/6**	2/6/3
7.1.7	**Lucrări științifice/tehnice în reviste de specialitate fără cotație ISI**	**81**	39
7.1.8	**Comunicări științifice prezentate la conferințe internaționale**	**452**	500
7.1.9	**Studii prospective și tehnologice, normative, proceduri, metodologii și planuri tehnice noi sau perfecționate, comandate sau utilizate de beneficiar**	**3**	0
7.1.10	**Drepturi de autor protejate ORDA sau in sisteme similare legale**	**0**	0

De remarcat că a crescut scorul ISI cumulat și a crescut substanțial numărul citarilor, ceea ce semnifică o crestere a calității cercetării efectuate în INFLPR și filiala ISS.

Tabel #15. Rezultate INFLPR 2016/2015		**INFLPR 2016**	**INFLPR 2015**
7.1.1	**Lucrări științifice și tehnice în reviste de specialitate cotate ISI**	**240**	**277**
7.1.2	**Factor de impact cumulat al lucrărilor cotate ISI**	**555.575**	**580.964**
7.1.3	**Citări în reviste de specialitate cotate ISI**	**4198**	**3957**
7.1.4	**Brevete de invenție (solicitate/acordate)**	**17/2/**	**26/11**
7.1.5	**Citări în sistemul ISI al cercetărilor brevetate**	**0**	**0**
7.1.6	**Produse/servicii/tehnologii rezultate din activitățile de cercetare bazate pe brevete, omologări sau inovații proprii**	**4/3/4**	**2/6/3**
7.1.7	**Lucrări științifice/tehnice în reviste de specialitate fără cotație ISI**	**62**	**18**
7.1.8	**Comunicări științifice prezentate la conferințe internaționale**	**410**	**461**
7.1.9	**Studii prospective și tehnologice, normative, proceduri,**	**3**	**0**

	metodologii și planuri tehnice noi sau perfecționate, comandate sau utilizate de beneficiar		
7.1.10	**Drepturi de autor protejate ORDA sau in sisteme similare legale**	**0**	**0**

	Tabel #16. Rezultate Filiala ISS 2016/2015	**ISS 2016**	**ISS 2015**
7.1.1	**Lucrări științifice și tehnice în reviste de specialitate cotate ISI**	**166**	**155**
7.1.2	**Factor de impact cumulat al lucrărilor cotate ISI**	**523.469**	**442.184**
7.1.3	**Citări în reviste de specialitate cotate ISI**	**4970**	**2514**
7.1.4	**Brevete de invenție (solicitate/acordate)**	**0/1**	**0/0**
7.1.5	**Citări în sistemul ISI al cercetărilor brevetate**	**0**	**0**
7.1.6	**Produse/servicii/tehnologii rezultate din activitățile de cercetare bazate pe brevete, omologări sau inovații proprii**	**0/0/2**	**0/0/0**
7.1.7	**Lucrări științifice/tehnice în reviste de specialitate fără cotație ISI**	**19**	**21**
7.1.8	**Comunicări științifice prezentate la conferințe internaționale**	**42**	**39**
7.1.9	**Studii prospective și tehnologice, normative, proceduri, metodologii și planuri tehnice noi sau perfecționate, comandate sau utilizate de beneficiar**	**0**	**0**
7.1.10	**Drepturi de autor protejate ORDA sau in sisteme similare legale**	**0**	**0**

7.2. Rezultatele de cercetare-dezvoltare valorificate și efecte obținute

În principal rezultatele cercetării-dezvoltării s-au concretizat prin realizarea de lucrări ştiinţifice şi brevete care au condus la diseminarea activităţii desfăşurate în institut permiţând în acest fel crearea unor consorţii ştiinţifice şi tehnologice la nivel naţional şi internaţional. Astfel au fost câştigate proiecte în cadrul Programului Naţional de Cercetare-Dezvoltare, precum şi la nivel european prin proiecte Euratom, Laserlab, Horizon 2020, ESA. În mod particular, cateva rezultate de excepție au dus la stabilirea pe piata serviciilor ştiinţifice/tehnice a INFLPR:

INFLPR si filiala ISS 2016
• Acordarea de asistență şi expertiză tehnica pentru intreprinderi care folosesc acceleratoare de electroni (WALTER TOSTO WTB); • Dezvoltarea de tehnologii pentru realizarea suprafețelor dure folosite în cercetarea de fuziune nucleară (IPP Garching, Germania; Culham Centre for Fusion Energy, Anglia; CEA Cadarache Franta; etc.); • Servicii expert de monitorizare a asigurării calității la fabricarea cablurilor supraconductoare pentrul sistemul de magneți ai instalației tokamak JT60-SA, beneficiar Fusion for Energy, UE-Spania; • Lansarea POC secțiunea G 135/23.09.2016 – Noi Tehnologii Avansate de Acoperire a Suprafețelor folosind Fascicul Laser de Mare Putere în vederea

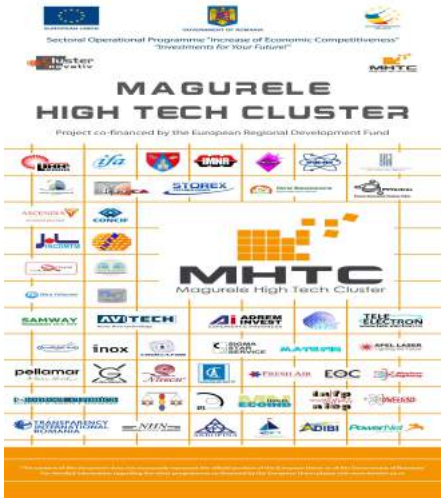
Creşterii Fiabilității şi a Performanțelor Materialelor (PRELAM);

- Lansarea POC secțiunea F, 153/25.11.2016 – Centru de Inovare Interdisciplinară de Fotonică şi Plasmă pentru Eco-Nano Tehnologii şi Materiale Avansate (IN2-FOTOPLASMAT).

7.3. Oportunități de valorificare a rezultatelor de cercetare

În scopul valorificării cercetărilor aplicative şi facilitarea transferului tehnologic, INFLPR susţine dezvoltarea propriului Centru de Transfer Tehnologic Inovare şi Marketing – CTTIM INFLPR.

Pe langa dezvoltarea CTTIM, institutul este membru fondator în clusterul inovativ ce reuneşte peste 70 întreprinderi, Magurele High Tech Cluster. Deasemenea, în anul 2016 INFLPR este membru fondator în clusterele CBRNE şi DRIFMAT.



Proiectul de anvergurăeconomică şi socială ``Măgurele Science Park`` este sprijinit de INFLPR în special datorită posibilităţii dezvoltării mediului antreprenorial şi strânsa legatură cu cercetarea şi dezvoltarea ştiinţifică.

Toate cele prezentate mai sus sunt posibilităţi de excepţie pentru valorificarea rezultatelor CD obţinute de INFLPR.

7.4. Măsuri privind creșterea gradului de valorificare socio-economică a rezultatelor cercetării

Ca oportunitate de valorificare a rezultatelor de cercetare, Centrul de Transfer Tehnologic CTTIM-INFLPR a fost acreditat în anul 2016, pentru o perioada de 5 ani, conform deciziei nr. 9373/16.09.2016 şi s-a implicat în identificarea rezultatelor activităţilor de cercetare-dezvoltare cu potenţial de transfer tehnologic.

Atat CTTIM INFLPR cat si CTTIM ISS sunt functionale, active in clusterele tehnologice MHTC, CLARA, DRIFTMAT, CRBNE.

Măsurile de creştere a capacităţii de cercetare-dezvoltare au în vedere două direcţii majore: infrastructura de cercetare-dezvoltare şi resursele umane.

În ceea ce priveşte infrastructura, măsurile se referă la:

- creşterea permanentă a calităţii echipamentelor;
- îmbunătăţirea sistemelor de arhivare şi stocare a datelor şi de procesare a bazei de date .

Pentru asigurarea unui grad optim de utilizare a infrastructurii se are în vedere creşterea, în paralel, a nivelului de pregătire a personalului de cercetare, atragerea şi instruirea tinerilor cercetători şi punerea în valoare a competenţelor şi potenţialului de cercetare din INFLPR prin vizite de lucru ale unor personalităţi ştiinţifice şi cercetători de mare valoare din Europa.

8. MĂSURI DE CREȘTERE A PRESTIGIULUI ȘI VIZIBILITĂȚII INSTITUTULUI

Rezultatele INFLPR în anul 2016 sunt în concordanţă cu strategia de dezvoltare a institutului, cu strategia cercetării de fizică şi strategia naţională de cercetare.

Printre obiectivele programatice ale INFLPR se numară:

- Consolidarea poziției fruntaşe în ierarhia cercetării româneşti;
- Creşterea rolului institutului în cercetarea fundamentală care sprijină ELI-NP;
- Creşterea participării INFLPR în EURATOM şi LASERLAB;
- Sprijinirea inițiativei Rost EU.

8.1. Prezentarea activității de colaborare prin parteneriate

Dezvoltarea de parteneriate la nivel național și internațional

In anul 2016, INFLPR şi filiala ISS 2016 au încheiat un număr de 61 Parteneriate internaționale (vezi lista nr. 2, pagina 43-45), dețin un număr de 107 parteneri internaționali (vezi lista nr. 3, pagina 46 - 48) şi au încheiat un număr de 107 Parteneriate interne pe proiecte de cercetare – dezvoltare (vezi lista nr. 4, pagina 49 - 53).

Înscrierea institutului în baze de date internaționale care promovează parteneriatele
INFLPR şi filiala ISS 2016
Membru în Consorţiul ADAS (Atomic Data and Analysis Structure);
INFLPR este înscris în baza de date a Programului European Horizons 2020 (PIC 999499253);
Membru Facility for Antiproton and Ion Research(FAIR)- SPARC;
Membru în retelele COST;
Membru Project SILMI (Super Intense Laser-Matter Interactions);
Membru ERRIS;

Membru MERIL.

Înscrierea institutului ca membru în rețele de cercetare / membru în asociații profesionale de prestigiu pe plan național/ internațional
INFLPR şi filiala ISS 2016
INFLPR este membru în prestigioasa rețea de cercetare LASERLAB care reunește toate laboratoarele de cercetare care folosesc laseri de mare putere;
INFLPR este membru în rețeaua EURATOM;
INFLPR este membru în numeroase rețele COST care asigură o conectare a cercetătorilor din institut cu parteneri europeni cu scopul efectuării unor cercetări comune în cadrul proiectelor finanțate de comunitatea europeană.

Participare în comisii de evaluare concursuri naționale/internaționale
(Vezi lista nr.5, pagina 54)

Personalități științifice ce au vizitat institutul
(vezi lista nr.6, pagina 55 - 56)

Lecții invitate, cursuri și seminarii susținute de personalitățile științifice invitate
(vezi lista nr.7, pagina 57)

Membri în colectivele de redacție ale revistelor recunoscute ISI (sau incluse în baze internaționale de date) și în colective editoriale naționale și/sau internaționale
(vezi lista nr.8, pagina 58)

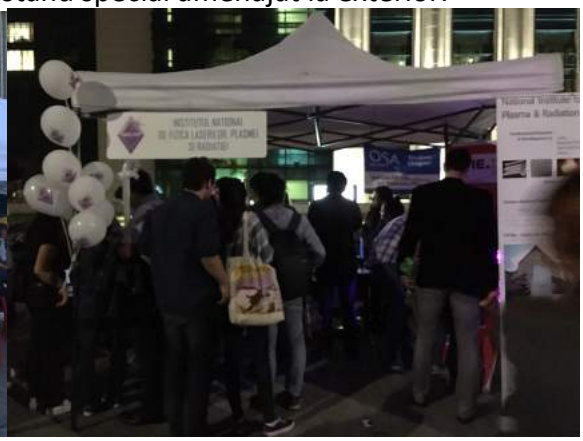
8.2. Prezentarea rezultatelor la târgurile și expozițiile naționale și internaționale:

Târguri și expoziții naționale INFLPR şi filiala ISS 2016

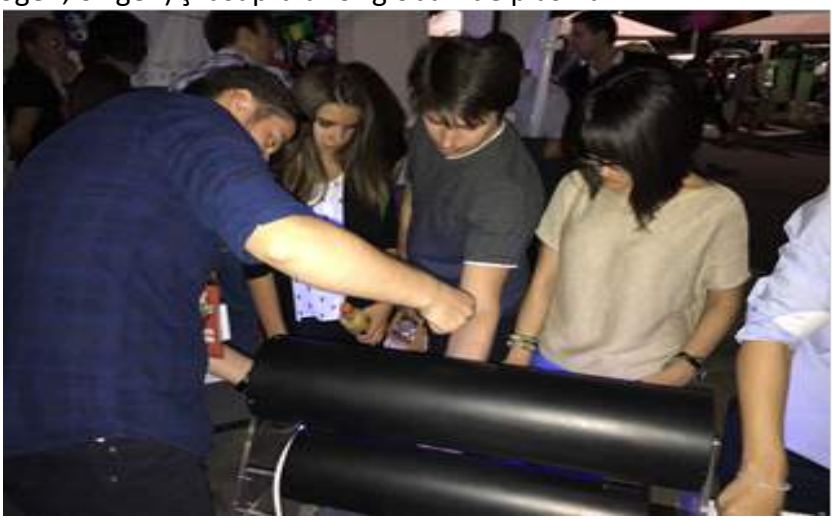
1. Participare cu stand propriu la **``Salonul Internațional al Cercetării Inovării si Inventicii``**, Cluj-Napoca, martie 2016

2. Participare cu stand expozitional propriu: **Sci+Fi FEST** , festival de ştiintă şi science-fiction organizat de revista Ştiință & Tehnică cu sprijinul Centrului Cultural Casa Artelor, Primaria Sectorului 3 şi al ARCUB, Primaria Municipiului Bucurest la Biblioteca Națională a României din Bucuresti în perioada 30 septembrie - 1 octombrie, 2016. Pe lânga alte institute de cercetare din tară, INFLPR şi filiala ISS au fost reprezentate la doua standuri expoziționale şi cu o prelegere publică pe scena mare a evenimentului.

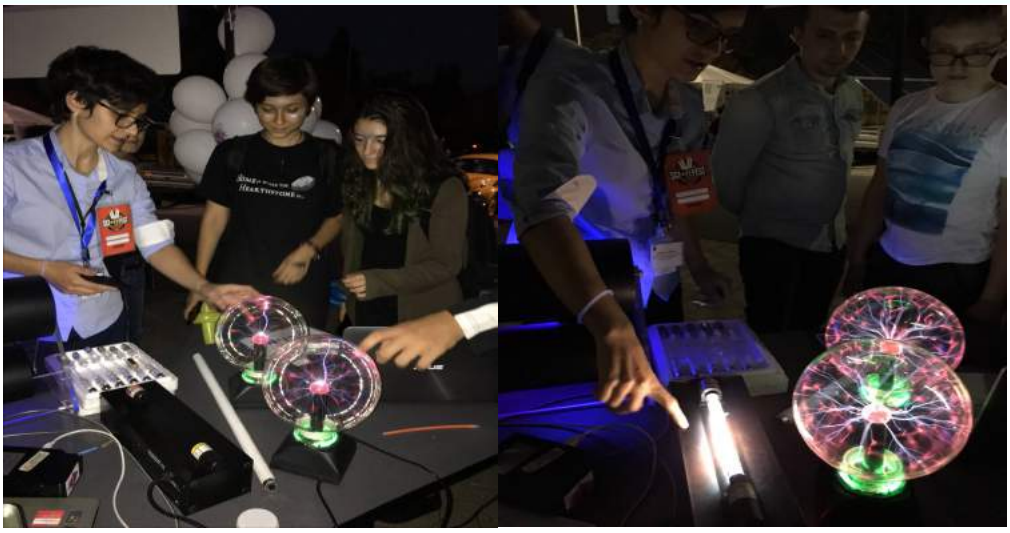
Grupul format din Maximilian Teodorescu, Valentina Mărăscu, Adrian Bercea şi Cătălin Constantin au participat din partea INFLPR cu un număr de trei experimente de fizică educativă dedicate în special copiilor la un stand special amenajat la exterior.



Experimentele au cuprins spectroscopie optică de emisie realizată cu ajutorul unui spectrograf portabil asupra unor tuburi de descarcare cu diferite gaze (argon, azot, heliu, hidrogen, oxigen) şi asupra unor globuri de plasmă.



De asemenea, a fost montat un experiment de prezentare a modului de funcționare al unui laser He-Ne; acest experiment a putut fi asociat cu cel de spectroscopie, facând astfel legătura între plasmă şi laser. Un alt experiment destinat celor tineri a constat în explicarea şi demonstrarea utilizarii luminii “negre” (UV) în sistemele de securizare ale bancnotelor.



Totodată a fost prezentat modulul macroprocesări cu laserul (LaMP - CETAL): tăieri, suduri, inscripţionări, procesare 3D (tăieri) şi modulul microprocesari cu laserul (LaMP – CETAL): holograme / elemente optice difractive, inscripţionare tip Direct Laser Writing (DLW), microstructuri 3D în polimer (Nanoscribe).
Experimentul demonstrativ a fost făcut cu un microscop optic de procesare cu laserul şi vizualizare în timp real (LaMP – CETAL).

Secţia Laseri a INFLPR a prezentat o serie de procesări de suprafaţă: nanostructuri tip "ripples", inscripţionări 2D folosind nanostructuri tip "ripples", condensatori interdigitali, holograme şi inscripţionări de securitate des întâlnite.

3. **Participare Startarium Pitch Day** - networking - 23 noiembrie 2016.
https://www.startarium.ro/eveniment/Finala-Startarium-Pitch-Day

4. **Astro Fest**, festival de explorare spațială şi astronomie organizat de Discovery Channel şi Știință & Tehnică în data de 14 Mai, 2016, la Biblioteca Națională a României din Bucureşti, unde au fost sărbatoriți 35 de ani de la zborul în spațiul cosmic al lui Dumitru Prunariu, dar şi Ziua Internațională a Astronomiei. Pe lângă alte institute de profil spațial

din țară, ISS a fost reprezentat la un stand expozitional şi la o prelegere publică pe scena mare a evenimentului de talie internațională, unde au participat 12 astronauți din 9 tări. Sursa: http://stiintasitehnica.com/vino-la-astro-fest-festivalul-de-explorare-spatiala/

5. **Noaptea Cercetătorilor Europeni**, proiect co-finanțat prin Programul de Cercetare şi Inovare al Comisiei Europene, a avut loc şi la Bucureşti, in Piața Universității, în data de 30 Septembrie 2016, unde ISS a fost partener şi organizator local. O echipă de cercetători din cadrul ISS au contribuit cu activitați de cercetare prezentate la un stand expozițional al ISS. Surse:http://www.noapteacercetatorilor.eu/; http://media.wix.com/ugd/c9353b_9bcd68bd4c33410e8061bc19afffce84.pdf

Târguri şi expoziții internaționale INFLPR şi filiala ISS 2016

1. **Salonul Internațional de Invenții Geneva** 13-17 aprilie 2016, unde o echipă de cercetători din INFLPR în colaborare cu INOE 2000 a obținut Medalia de aur pentru Procede et dispositif pour la spectrometrie de masse a impulsions laser

2. **67thIAC, Congresul Internațional de Astronautică** organizat în Guadalajara, Mexico, în perioada 26 – 30 Septembrie, 2016. O echipă de cercetători din cadrul ISS au facut parte din echipa României. Sursa: https://www.facebook.com/ROspacescience.

3. **ESA Citizen's Debate, Consultarea cetățenilor asupra domeniului spațial pentru Europa**, prima consultare de acest fel, organizată în fiecare Stat Membru al Agentiei Spațiale Europene în data de 10 Septembrie 2016. O echipă de cercetători din cadrul ISS au participat, în calitate de mediatori, la mese de discuții cu cetățenii pe domeniul spațial la evenimentul organizat de Agenția Spatială Română (ROSA) la Bucureşti. Surse:http://www.citizensdebate.space/ro_RO/home, https://www.facebook.com/AgentiaSpatialaRomana/

8.3. Premii obținute prin proces de selecție/distincții

Premii naţionale si internaţionale INFLPR şi filiala ISS 2016		
Premiu	**Autoritatea care l-a acordat**	**Autorii**
Certificate of Excellence/ SPIE/Poster Presentation, Dr. Robert Lieberman, SPIE President 2016	SPIE	Bojan Mihaela
ICTAC Young Scientist Award, International Confederation for Thermal Analysis and Calorimetry (ICTAC)	ICTAC16 Orlando-SUA August 2016	Rotaru Andrei
Medalia de aur	Salon International des Inventions Geneve	A.Popescu, A.Surmeian, C.Diplasu, D.Savastru, A.Groza, M.Tautan, D.Tenciu, S.Miclos, M.Ganciu
Premiul special	OSIM Expoziția Internațională de Invenții Geneva	A.Popescu, A.Surmeian, C.Diplasu, D.Savastru, A.Groza, M.Tautan, D.Tenciu, S.Miclos, M.Ganciu
Premiul Radu Grigorovici acordat de Academia Româna în domeniul ştiinţelor fizice, pentru grupul de lucrări: Caracterizarea şi testarea materialelor de interes pentru fuziunea nucleară.	Academia Română	C. M. Ticos, C. Porosnicu
Research Image Award, International Symposium on Energy Challenges and Mechanics - ISECM 2016, Inverness, UK.	North Sea Conference & Journal	C. Surdu-Bob, M. Badulescu, A. Anghel

Excelența în cercetarea doctorală – afiliere în România, domeniul Ştiințele Pamântului şi Ştiintele Spațiale	Asociația cercetătorilor români "Ad Astra"	Nicusor Arsene
2016 "Gold Research Award"	Department of Electrical, Computer and Energy Engineering, University of Colorado at Boulder	Cătălin Negrea
Excelență în cercetarea doctorală – afiliere în străinătate	Asociația cercetătorilor români Ad Astra	Cătălin Negrea

8.4. Prezentarea activității de mediatizare INFLPR şi filiala ISS

Organizarea conferinței internaționale: 10th International Conference on Photoexcited Processes and Applications (ICPEPA-10), August 29 – September 2, 2016, Brasov, România.

Extrase din presă (interviuri)

1. Revista Tehnică şi Tehnologie: ``CETAL, un pas strategic în dezvoltarea tehnologiilor laser în România``, 05.12.2016.
2. Revista Ştiință şi Tehnică, nr. 61 Noiembrie, 104-107 (2016), "Impactul metalelor grele asupra plantelor".
3. Articol în revista "ALICE Matters" scris cu ocazia devenirii României membru cu drepturi depline la CERN http://alicematters.web.cern.ch/?q=content/node/978
4. Interviu cu Dr. Valeanu V. si Dr. Zgura I.S., „ISS a dezvoltat un centru specializat în contramasuri la agresiunile mediului cosmic", jurnalist Mihaela Ghita, Revista Market Watch, Noiembrie 2016, Nr. 189, Secțiunea Cercetare şi Învățamant Superior.
5. Interviu cu Dr. Isar P.G., "Observatorul Pierre Auger şi radiațiile cosmice", jurnalist Claudiu Tanaselia Revista Ştiință şi Tehnică, Nr. 53, Ediția Februarie 2016

Participare la dezbateri radiodifuzate/televizate

TV:

1. Directorul General al INFLPR Traian DASCALU, 23 martie 2016; Program TV Internațional: Emisiune "Investiți in România!- Euroeconomia"; Elita cercetării româneşti vine la TVR Internațional
   http://www.tvrplus.ro/editie-investiti-in-romania-429214
2. CSID, ProTV
   http://protvplus.ro/produs/ce-se-intampla-doctore/video/6940-ce-se-intampla-doctore-20-februarie-2016?page=2
3. CSID, ProTV
   http://protvplus.ro/produs/ce-se-intampla-doctore/video/7186-ce-se-intampla-doctore-2-aprilie-2016

4. Emisiunea TVR Pro Patria din 20/11/2016 - http://www.tvrplus.ro/editie-pro-patria-507865

Radio:

1. Emisiune Corina Negrea – Vlad Valeanu cu tema „Viața în spațiul cosmic" (martie 2016), Radio România Cultural
2. Emisiune Corina Negrea - Pierre de Hillerin si Alexandru Nistorescu cu tema "Mentor si mentorat", Radio România Cultural
3. Radio Romania Cultural, Emisiunea Cafeneaua de Ştiinţă cu Corina Negrea la Libraria Humanitas din Cişmigiu, Bucureşti, "Ipostaze ştiintifico feminine; ştiinţa la feminin". Invitat din partea ISS: Isar P.G., 12 Martie 2016.
Surse: http://radiocluj.ro/2016/03/08/ipostaze-stiintifico-feminine-la-cafeneaua-de-stiinta/, http://www.rador.ro/wp-content/uploads/2016/03/cafeneaua-de-stiinta-7martie.pdf
8. Radio Guerrila, Emisiunea Sound of Science cu Petru Startulat şi Florin Badea. Invitat din partea ISS: Isar P.G., 17 Iulie 2016.
Sursa: http://soundofscience.info/sound-of-science-speciala-37/
9. Radio Romania Cultural, Emisiunea Cafeneaua de ştiinţă (organizată in cadrul Bucharest Science Festival, 29 Septembrie 2016) cu Corina Negrea la Libraria Humanitas din Cişmigiu, Bucureşti, "Radiaţia cosmică, genetica umană şi călătoriile spaţiale". Invitat din partea ISS: Isar P.G. Surse: http://www.bucharestsciencefestival.ro/evenimente/2016/radiatia-cosmica-si-calatoriile-spatiale/, http://radioromaniacultural.ro/radiatia-cosmica-genetica-umana-si-calatoriile-spatiale/
10. Radio Romania Cultural, Emisiunea Ştiinţa în Cuvinte Potrivite cu Corina Negrea, Dan Manolache şi Mihaela Ghita. Invitat (ocazional) din cadrul ISS: Isar P.G., pentru acordarea de interviuri telefonice pe diferite dezbateri de actualitate în domeniul spaţial.

9. Prezentarea gradului de atingere a obiectivelor stabilite prin strategia de dezvoltare a INFLPR pentru perioada de certificare

- Planul de dezvoltare instituțională prezentat și asumat la evaluarea INFLPR a cuprins obiective științifice, investiționale, de creare a infrastructurii organizaționale pentru transfer tehnologic, resursa umană, colaborări strategice.
- Obiectivele științifice și investiționale au fost deja îndeplinite.
- A fost terminată investiția Centrul de Tehnologii Avansate cu Laser (17 milioane euro), ISOTEST (1.5 milioane euro).
- În anul 2015 a fost elaborată o nouă strategie științifică pentru perioada 2016-2020.

- A fost obținută finanțarea și a început un nou proiect de investiție majoră (69 milioane lei) „Centrul de Inovare Interdisciplinar de Fotonică și Plasmă pentru Eco-Nano Tehnologii și Materiale Avansate”.
- Resursa umană este în curs de stabilizare, crește numărul de doctori, numărul de conducători de doctorat, numărul de doctoranzi cu activitate permanentă în INFLPR.
- INFLPR este prezent în parteneriate strategice mari: LASERLAB, EURATOM, ELI-NP.
- INFLPR este membru fondator în patru clustere mari: MHTC, CLARA, DRIFTMAT, CRBNE

10. Surse de informare și documentare din patrimoniul științific și tehnic al INFLPR

În institut au fost întreprinse demersurile pentru a continua accesul la baze de date internaţionale ISI Thompson, SCOPUS, programul național ANELIS, Biblioteca Naţională de Fizică, numeroase cărţi şi reviste de specialitate.

11. Măsurile stabilite prin rapoartele organelor de control şi modalitatea de rezolvare a acestora.

In anul 2016 INFLPR a fost supus unor controale din partea ANCSI si din partea Curții de Conturi Ilfov.
Misiunea de audit a ANCSI s-a finalizat cu Raportul de audit public 5006/21.12.2016 care a dispus implementarea a 7 recomandări.
Controlul efectuat de Curtea de Conturi Ilfov s-a finalizat cu raportul nr. 2465/04.11.2016. Prin DECIZIA 36/26.01.2017 comunicată în 07.02.2017 Camera de Conturi Ilfov dispune 8 măsuri a caror implementare va fi raportată până la 30 iunie 2017.

12. Concluzii

În anul 2016 Institutul de Fizica Laserilor, Plasmei şi Radiaţiei a continuat programul de cercetare prin proiectele finanţate din Planul Naţional de Cercetare-Dezvoltare, Programul Nucleu precum şi prin proiecte internaţionale finanţate din fonduri publice (LASERLAB, EURATOM, ELI). Au fost efectuate activități de cercetare în cadrul a peste **220 proiecte de cercetare naționale și internaționale cu o valoare totală de 67.238.304 lei.** Cercetările efectuate s-au realizat la un înalt nivel ştiinţific, nivel atestat de numărul de publicaţii, participările la conferinţele internaţionale de specialitate, patente acordate dar şi prin implicarea în parteneriate internaţionale mari.

Realizarea a **406** lucrări ştiinţifice/tehnice în reviste de specialitate cotate ISI având un factor de impact cumulat de peste **1079** puncte ISI, acumularea unui număr de peste **9168** citări (fără autocitări) în fluxul internaţional principal ale revistelor ISI precum şi solicitarea în 2016 a **17** brevete, acordarea în 2016 a **3** brevete de invenţie naţionale, arată că institutul

are o poziţie bine stabilită în sistemul naţional de cercetare şi, prin rezultatele obţinute, se apropie constant de nivelul de performanţă internaţională.

Colaborarea ştiinţifică la nivel internaţional este foarte bună, **107** parteneri internaţionali, şi acest fapt trebuie valorificat urmărindu-se creşterea procentului finanţării internaţionale în bugetul institutului.

O analiză detaliată a rezultatelor obţinute de către echipele de cercetare relevă mari diferenţe între colectivele de cercetare în privinţa numărului de lucrări valoroase, patente, dezvoltarea de tehnici şi tehnologii. În cazul domeniilor mai puţin dinamice se impune reconversia cercetătorilor valoroşi către domeniile de foarte mare interes deschise de investiţia CETAL. INFLPR s-a implicat cu hotărâre, şi în anul 2016, în realizarea infrastructurii de cercetare ELI-NP pentru laserul de 2 x 10PW, prin furnizarea de expertiză tehnică şi personal de cercetare.

13. Perspective/priorități pentru perioada următoare de raportare.

Pentru perioada următoare, INFLPR își concentrează activitatea pe domeniile sale strategice de cercetare, atât prin cercetare fundamentală, cât și aplicativă în domeniul fizicii laserilor, plasmei şi radiaţiilor, prin participarea la proiecte internaţionale, europene şi naţionale.

În privința proiectelor naționale, INFLPR participă constant cu propuneri de proiecte în toate competițiile din PNCDI III. Astfel, în cadrul programului 4 – Cercetare fundamentală și de frontieră din cele 24 de proiecte de cercetare exploratorie depuse de INFLPR, au trecut de faza I de evaluare un număr de 15 proiecte, iar în urma evaluării în faza a II-a, au obținut punctaje de peste 90 de puncte un număr de 6 proiecte. La competiția de Proiecte complexe de cercetare de frontieră, INFLPR a depus un număr de 8 proiecte în calitate de coordonator, procesul de evaluare fiind în derulare. În cadrul Programului de Cercetare-Dezvoltare-Inovare pentru Tehnologie Spațială și Cercetare Avansată – STAR, la Competitia pentru proiecte C3 - 2016 Proiecte tip "CDI", dintr-un număr de 16 proiecte depuse sunt propuse spre finanțare 6 proiecte. La competițiile din cadrul Programului 1 - Dezvoltarea sistemului național de cercetare - dezvoltare, Subprogramul 1.1 - Resurse Umane, au fost înaintate spre evaluare 37 de Proiecte de cercetare pentru stimularea tinerelor echipe independente, și respectiv 27 Proiecte de cercetare postdoctorală. Acestea creează premise favorabile pentru derularea unor cercetări de înalt nivel în toate departamentele institutului, care beneficiază, conform politicilor implementate în institut în cursul anului 2016 , de mai multe facilități de infrastructură de caracterizare si măsurare.

O prioritate importantă în perioada următoare se referă la creșterea capacității de cercetare-dezvoltare și de transfer de cunoștințe prin crearea unui Centru de Inovare Interdisciplinar de Fotonică și Plasmă pentru Eco-Nano Tehnologii și Materiale Avansate, finanțat prin Programul Operațional Competititivitate, care își propune stabilirea unor legături puternice cu industriile de vârf din România în vederea rezolvării prin cercetare a unor probleme tehnice cu care acestea se confruntă, și testarea soluțiilor identificate la nivel de prototipuri.

În domeniul cooperării internaţionale, INFLPR își propune menținerea poziției de lider la nivel național în domeniul cercetărilor legate de fuziunea nucleară, prin parteneriate de tip EUROfusion cu participare internațională, dar și dezvoltarea de noi parteneriate la

nivel internaţional în vederea integrării cercetărilor proprii în programe internaţionale reprezentative, precum programele Agenției Spațiale Europene ESA, programul Știință pentru Pace al NATO, programul Horizon 2020, programul de cercetare al CERN. În același timp, strategia și politicile INFLPR își propun integrarea facilității CETAL – laser 1 PW în consorțiile de fizica laserilor de mare putere.

Lista nr.1 - Perfecționarea resursei umane - personal cercetare-dezvoltare si personal auxiliar

Perfecționarea resursei umane - personal cercetare-dezvoltare INFLPR şi filiala ISS				
Nr. Crt.	**Denumire curs**	**Țară/Oraș**	**Nume și prenume/ Functia**	**Nr.mandatului/ data**
1.	Participare la stagiu de pregatire experimente cu laser de mare putere organizat de Central Laser Facility Rutherford Apletton Lab-Laserlab	UK	Georgiana GIUBEGA	3022/28.11.2016
2.	International Training School on Fiber Lasers & Optical Fiber Technology: Praga, 29 august - 2 septembrie 2016	Praga/Cehia	Laura Mihai	1943/07.07.2016
3.	Advanced fibre laser and coherent source as tools for society, manufacturing and lifescience	Edinburgh/UK	Laura Mihai	2731/27.09.2016
4.	Fast advanced Scintillator Timing (FAST)- TD1401	Atena/Grecia	Stăncălie Andrei	1097/18.04.2016
5.	Participare la Spring School on Fundamentals of Surface Tension and Wetting	Belgia/Bruxelles	Agota Simon/ACS	1062/14.04.2016
6.	Participare la „ELI and HiLASE Summer School ELISS 2016”, 20-27 August 2016, HiLASE, Dolni Brezany, Czech Republic	Dolni Brezany, Czech Republic	Matei Consuela/CS3	2214/04.08.2016
7.	ICTP-Winter College in Otics, 15-26 February, 2016	Trieste, Italy	IONEL Laura/ CS III	239/28.01.2016
8.	ICTP-Winter College in Otics, 15-26 February, 2016	Trieste, Italy	ALBU Cătălina/ CS	230/27.01/2016
9.	ELI Summer School 2016, 21-26 August 2016, ELI Beamlines	Dolní Břežany, Czech Republic	IONEL Laura/ CS III	2068/20.07.2016
10	ELI Summer School 2016, 21-26 August 2016, ELI Beamlines	Dolní Břežany, Czech Republic	BUDRIGĂ Olimpia/ CS III	1486/26.05.2016
11	Participare la școala şi conferința internațională International School and Conference "Saint-Petersburg OPEN 2016"	Saint-Petersburg / Russia	STANCIU Cătălina-Andreea / CS, PhD	591 / 07.03.2016
12	Participare la “Siegman International School on Lasers: 2016”	Barcelona / Spain	BRANDUȘ Cătălina Alice / CS, Doctorand	1612 / 07.06.2016.

13.	Participare la curs de SEM/EDAX, Secția Laseri, INFLPR	România/ Măgurele	STANCIU Catalina-Andreea / CS, PhD	11-13 iulie 2016
14.	Participare la curs de SEM/EDAX, Secția Laseri, INFLPR	România/ Măgurele	TIHON (MATEI) Cristina-Elena / CS, PhD	11-13 iulie 2016
15.	Participare la curs de SEM/EDAX, Secția Laseri, INFLPR	România/ Măgurele	VOICULESCU Ana-Maria / CS III, PhD	11-13 iulie 2016
16.	Participare la curs de SEM/EDAX, Secția Laseri, INFLPR	România/ Măgurele	STANCIU George / CS, PhD	11-13 iulie 2016
17.	Participare la curs de SEM, Secția Laseri, INFLPR	România/ Măgurele	CROITORU Gabriela / CS, Doctorand	11-13 iulie 2016
18.	Participare la curs de SEM, Secția Laseri, INFLPR	România/ Măgurele	VOICU Flavius-Marian / CS, Doctorand	11-13 iulie 2016
19.	Participare la curs de EDAX, Secția Laseri, INFLPR	România/ Măgurele	GRIGORE Oana Valeria / CS, Doctorand	11-13 iulie 2016
20.	Licența, sustinere teză de dizertație, Universitatea din Bucureşti, Facultatea de Fizică, Bucureşti, România Promovarea programului de studii masterale în Fizica Materialelor Avansate şi Manostructuri	România/ Măgurele	POROSNICU Ioana; ACS, Student	29 iunie 2016
21.	Participare „Curs LeaderShip şi Management" la Top Quality Management	România/ Bucureşti	Mitu Bogdana/CS I	
22.	Participare la training SEM	România/ Măgurele	Alexandru Anghel/CS3	
23.	Participare la training SEM	România/ Măgurele	Andrada Stoyanova /CS3	
24.	Participare la conferința internatională „6th International Conference on Advanced Plasma Technologies (ICAPT-6) / Workshop on Industrial Application of Plasma Solutions"	Cambodgia/Siem Reap	Dinescu Gheorghe / CS I	1251/05.05.2016
25.	Participare la conferința internatională „7th International Symposium on Plasma Nanoscience and	Grecia/Vravrona, Atena	Dinescu Gheorghe / CS I	2470/31.08.2016

	Nanotechnology (iPlasmaNano-VII)"			
26.	Participare la conferința internatională „15th International Conference on Plasma Surface Engineering"	Germania/Garmisch-Partenkirchen	Dinescu Gheorghe / CS I	1817/29.06.2016
27.	Participare la conferința internatională „Gordon Conference, Plasma Processing Science"	SUA/Andover	Dinescu Gheorghe / CS I	1766/23.06.2016
28.	Participare la lucrările „3rd Governing Board Meeting al proiectului WEST "	Franta/Marsilia	Dinescu Gheorghe / CS I	1206/04.05.2016
29.	Participare la „1st WEST Experiment Planning Meeting"	Franta/Marsilia	Dinescu Gheorghe /CS I	691/14.03.2016
30.	Reuniune proiect PlasmaTex şi colaborare tratare suprafete cu plasmă	Belgia/Ghent	Dinescu Gheorghe / CS I	400/11.02.2016
31.	Participare la conferința internatională „International Conference on Electrical Discharges with Liquids (ICEDL 2016), and the third annual meeting of COST Action TD1208 "Electrical Discharges with liquids for Future Applications"	Turcia/Kocaeli	Dinescu Gheorghe / CS I	677/11.03.2016
32.	Participare la conferința internatională „2nd Conference Future in Plasma Science II"	Germania/Greifswald	Dinescu Gheorghe /CS I	347/08.02.2016
33.	Participare la conferința internatională „MRS Fall Meeting&Exhibit"	SUA/ Boston, Massachusetts	Lazea-Stoyanova Ileana / CS III	2891/13.10.2016
34.	Participare la conferința internatională „15th International Conference on Plasma Surface Engineering"	Germania/Garmisch-Partenkirchen	Lazea-Stoyanova Ileana / CS III	1773/24.06.2016
35.	Stagiu de lucru cercetare ştiințifică la Laboratoire de Physique des Interactions Ioniques et Moleculaires (PIIM), Aix Marseille Universite	Franta/Marsilia	Acsente Tomy / CS III	2090/22.07.2016
36.	Participare la conferința internatională „The 5th International Colloquium "Physics of Materials" (PM-5), Universitatea Politehnica din Bucuresti"	România/ Bucureşti	Mărăscu Valentina/AC	
37.	Participare la conferința internatională „29th	Republica Ceha/Praga	Mărăscu Valentina/AC	1295/10.05.2016

	Symposium On Fusion Technology (SOFT)”			
38.	Participare la „The second „Meet and Greet-Women in Plasma 2016””	Germania/Bochum	Mărăscu Valentina/AC	1629/08.06.2016
39.	Participare la scoala de vară„13th Kudova Summer School “Towards Fusion Energy'””	Polonia/Kudova-Zdroj	Mărăscu Valentina/AC	1053/13.04.2016
40.	Participare la conferința internatională „23rd Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG)”	Slovacia/Bratislava	Stoica Silviu-Daniel/CS	893/28.03.2016
41.	Participare la conferința internatională „23rd Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG)”	Slovacia/Bratislava	Mitu Bogdana/CS I	860/24.03.2016
42.	Participare la „The second „Meet and Greet-Women in Plasma 2016””	Germania/Bochum	Mitu Bogdana/CS I	1630/08.06.2016
43.	Participare la conferința internatională „European Material Research Society – Spring Meeting”	Franta/Lille	Mitu Bogdana/CS I	752/16.03.2016
44.	Participare la conferința internatională „International Conference on Electrical Discharges with Liquids (ICEDL 2016), and the third annual meeting of COST Action TD1208 “Electrical Discharges with liquids for Future Applications”	Turcia/Kocaeli	Teodorescu Maximilian/ CS	676/11.03.2016
45.	Participare la „Kudowa Summer School Towards Fusion Energy”	Kudowa, Polonia	Dincă Paul Pavel, Asistent Cercetare Stiintifica	1167/22.04.2016
46.	Participare la „Kudowa Summer School Towards Fusion Energy”	Kudowa, Polonia	Butoi Bogdan Gabriel, Asistent Cercetare Stiintifica	1166/22.04.2016
47.	Participare la Workshop on Application of Advanced Plasma Technologies in CE Agriculture	Slovenia/Ljubljana	Măgureanu Monica / CS I	654 / 11.03.2016
48.	Participare la High Pressure Low Temperature Plasma Chemistry Symposium	Czech Republic/ Brno	Dobrin Daniela / CS III	
49	Participare la 6th International Symposium on Transparent	Grecia/ Chania	Nistor Magdalena/	2152 /28.07.2016

	Conductive Materials (TCM 2016)		CS I	
50.	Participare la 6th International Symposium on Transparent Conductive Materials (TCM 2016)	Grecia/ Chania	Gherendi Florin/CS II	2154 / 28.07.2016
51.	IAC 2016 Winter School	Tenerife, Spania	Dumitru Bogdan /ACS	07-16.11.2016
52.	Geant4 tutorial	Romania/Magurele	Neagu Alina Tania /CSIII	14-18.11.2016
53.	Participare la OFFLINE workshop si Tutorial	Germania/Karlsruhe	Paula Gina Isar/CSII	06.06.2016
54.	Participare la the *IV International Geant4 School*	Serbia / Belgrad	Potlog Petru-Mihai	23-28.10.2016
55.	Geant4 Tutorial in IFIN-HH	România/ Măgurele	Potlog Petru-Mihai	14-18.11.2016
56.	Participare la cursul: "Introduction to the nonlinear analysis of space plasma turbulence"	Oulu, Finlanda	Munteanu Costel	2016
57.	Proprietate Industrială- Modulul III (Desene şi Modele)	România/Bucureşti	Radu Aurelian Andrei/ Cercetator Stiintific Gradul III	23.05.2016 - 25.05.2016

Perfecționarea resursei umane - personal auxiliar INFLPR şi filiala ISS				
Nr. Crt.	**Denumire curs**	**Tara/Oras**	**Nume si prenume/ Functia**	**Perioada**
1.	Curs Proprietate Industrială OSIM	România/Bucureşti	Rădoi Trandafylon Irina	Mai 2016
2.	Curs Cadru Tehnic PSI	România/Bucureşti	Băniță Valentin Cristinel	Ianuarie 2016
3.	Masinist Pod Rulant	România/Bucureşti	Stoicu Marian	Oct - Dec 2016
4.	Curs Proprietate Industrială- Modulul II (Brevete de Invenție şi Modele de Utilitate) OSIM	România/Bucureşti	Vlase Cornelia Georgiana/Consilier Juridic	16.05.2016 - 20.05.2016

Lista nr. 2 - Parteneriate internaționale

Parteneriate internaționale INFLPR şi filiala ISS 2016
1. COST Action MP1401: Advanced fibre laser and coherent source as tools for society, manufacturing and lifescience 2. Acord de colaborare între INFLPR – Institute of Solid State Physics, Bulgarian Academy of Sciences, ISSP-BAS, Sofia Bulgaria. 3. COST Action TD1205: Innovative methods in radiotherapy and radiosurgery using synchrotron radiation 4. COST Action ES1309: Innovative optical Tools for proximal sensing of ecophysiological processes (OPTIMISE) 5. COST Action MP1307: Stable Next-Generation Photovoltaics: Unraveling degradation mechanisms of Organic Solar Cells by complementary characterization techniques (StableNextSol) 6. COST Action CA15125: Designs for Noise Reducing Materials and Structures (DENORMS) 7. COST Action MP1204: TERA-MIR Radiation: Materials, Generation, Detection and Applications 8. Partener asociat la proiectul European Marie Curie Initial Training Network – TRIPOD, coordonat de Aston University (Marea Britanie). 9. JOINT RESEARCH PROJECT- Proiect bilateral finanțat de Academia Română şi Academia Bulgara de Ştiințe. BULGARIA/ ISSP-BAS Sofia, Ultrafast laser applications in material processing and characterization 10. Parteneriat în cadrul programului FAIR/SPARC, participarea României la dezvoltarea infrastructurii de fizică atomică pentru interacțiuni în câmpuri supracritice 11. Acord de colaborare între INFLPR – Academiile de Stiinte ale Bulgariei, Cehiei, Israelului, Poloniei; Department of Physics, Campus lane South, University of the Free State, Nelson Mandela extension, Bloemfontein, South Africa, Programul Cooperare Europeană şi Internaţională Subprogramul 3.1. Bilateral/multilateral, din PN III, “Noi materiale optice performante pe baza de oxizi obtinute prin metode de depunere combinatoriale”, 2016-2018 12. Acord de colaborare între – INFLPR – Department of Physics, Campus lane South, University of the Free State, Nelson Mandela extension, Bloemfontein, South Africa, Programul Cooperare Europeană şi Internaţională Subprogramul 3.1. Bilateral/multilateral, din PN III, “Noi materiale optice performante pe baza de oxizi obținute prin metode de depunere combinatoriale”, 2016-2018 13 Parteneriat în cadrul – Programului de cercetare România - Elvetia , proiect 18 RO-CH/2013, IZERZ0_142176: 1.1.2013 pana la 30.4.2016; Institutul Paul Scherrer 14. Parteneriat în cadrul Programului CAPACITĂŢI, Modul III, Parteneriat IFA-CEA Franța PN II „Efectul radiației asupra SiC: rolul raportului dintre dimensiunile grăunților cristalini şi a coliziunilor în cascadă”, 2013-2016 15. Parteneriat în cadrul COST MP1208: „Developing the Physics and the Scientific Community for Inertial Fusion” 16. Parteneriat în cadrul FP7-REGPOT-2012-2013-1 - 316309: INERA - Research and Innovation Capacity Strengthening of ISSP-BAS in Multifunctional Nanostructures 17. Parteneriat în cadrul NATO cu Institutul de Fizică Aplicată, Chişinau, Moldova (G 4890) 18. Parteneriat în cadrul rețelei EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY (COST): a. Acțiunea COST MP 1106, Smart and Green Interfaces. b. Acțiunea COST MP 1205, Advances in Optofluidics: Integration of Optical Control and Photonics with Microfluidics 19. Parteneriat în cadrul proiectului M-ERA.NET MAGPHOGLAS „New doped boro-phosphate

vitreous materials, as nano-powders and nano-structured thin films, with high optical and magnetic properties, for photonics" 2013-2016

20. Parteneriat în cadrul programului H2020 EUROFUSION, participarea României la pachetul de lurcu WPISA şi cercetări complementare
21. Parteneriat în cadrul proiectului "692688, LASER IGNITION - A TWINNING COLLABORATION FOR FRONTIER RESEARCH IN ECO-FRIENDLY FUEL-SAVING COMBUSTION; H2020 - TWINN - 2015 – Twinning"
22. Parteneriat în cadrul proiectului „Dezvoltarea ceramicilor laser policristaline Y2O3:Yb3+ pentru construcția de laseri microcip/ CERYB," Nr. Contract 2/BM/15.06.2016/ PN II, Programul CAPACITATI, Modul III, Proiect Bilateral Romania - Ucraina, UEFISCDI, Romania - Agentia de Stat pentru Stiinta, Inovare și Informatizare, Ministerul Educatiei si Stiintei, Ucraina/ 2016 – 2017
23. Parteneriat în cadrul proiectului bilateral România-Franța -„Modificări induse cu plasma şi laser asupra materialelor relevante pentru fuziune bazate pe tungsten" FUTURE
24. Parteneriat în cadrul EURATOM - Participarea României la EUROfusion WPEDU-RO şi cercetări complementare"
25. Acord de colaborare între INFLPR – JIHT Russian Academy of Science Moscow 05_2016 - 31_12_202
26. Parteneriat în cadrul retelei COST - Our Astro-Chemical History, Action CM1401
27. Parteneriat în cadrul proiectului „Participarea României la proiectul EUROfusion WPPFC şi cercetări complementare / WPPFC-RO"
28. Parteneriat în cadrul EURATOM - Participarea României la EUROfusion WP-PFC-C şi cercetări complementare
29. Parteneriat în cadrul rețelei M-ERA NET – „Noi tipuri de acoperiri antibacteriene pe materiale textile şi plastice cu eliberare controlată a agentului antibacterian (Acronim: Plasma Tex)"
30. Acord de colaborare între INFLPR – JINR conform Protocol nr. 4429-5-15/16-"Use of plasma of organic compounds for treatment of track membranes with the purpose of creation of micro- and nanofluidic diodes"
31. Parteneriat în cadrul rețelei COST - Electrical discharges with liquids for future applications, Action TD1208/2013-2017
32. Parteneriat în cadrul proiectului „Participarea Romaniei la proiectul EUROfusion WPJET 1 si cercetari complementare / WPJET1-RO, WPJET 2 si cercetari complementare / WPJET2-RO, WPJET 3 si cercetari complementare / WPJET 3-RO, WPJET4 si cercetari complementare / WPJET 4-RO
33. Parteneriat în cadrul proiectului „Participarea Romaniei la proiectul EUROfusion WPMAG si Eurofusion WPENR
34. Parteneriat în cadrul: Eurofusion WPCD, Eurofusion WPMST1;Eurofusion WPPFC
35. Parteneriat în cadrul IFA-CEA (C4-01, C4-07,C5-04, C5-05, C5-10)
36. Acord de colaborare intre INFLPR – INSP-Universitatea Paris 6, Franta
37. Parteneriat cu CERN în cadrul experimentului ALICE
38. Parteneriat cu CERN în cadrul experimentului CLICK
39. Parteneriat cu IUCN Dubna
40. Parteneriat în cadrul Colaborării Pierre Auger Observatory
41. Parteneriat în cadrul Colaborării R3B
42. Parteneriat în cadrul Colaborării JEM-EUSO
43. Parteneriat cu CERN în cadrul experimentului MOEDAL
44. Parteneriat în cadrul Colaborării Euclid
45. Parteneriat în cadrul Colaborării ANTARES
46. Parteneriat în cadrul Colaborării KM3Net
47. Parteneriat cu Deimos Space UK (Anglia) în cadrul proiectului ESA P2-SWE-II/Contract No. 4000116100/15/D/MRP
48. Parteneriat cu MetOffice UK (Anglia) în cadrul proiectului ESA P2-SWE-II/Contract No. 4000116100/15/D/MRP

49. Parteneriat cu DH Consulting (Belgia) în cadrul proiectului ESA P2-SWE-II/Contract No. 4000116100/15/D/MRP
50. Parteneriat cu GFZ Potsdam (Germania) în cadrul proiectului ESA P2-SWE-II/Contract No. 4000116100/15/D/MRP
51. Acord de colaborare între ISS şi CERN-ALICE pentru analiza structurii jeturilor produse în ciocnirile de la LHC inregistrate de experimentul ALICE şi pentru managementul producțiilor centrale Monte-Carlo și reconstrucția centrală a datelor experimentale
52. Acord de colaborare intre ISS şi CERN-ALICE pentru activitatea GRID în cadrul site-ului local ISS-ALICE
53. Acord de colaborare între ISS şi Universitatea din Berna (Elvetia), Laboratorul de Energii Inalte (LHEP)
54. Acord de colaborare între ISS şi IUCN Dubna (Rusia), Laboratorul Veksler-Baldin de Fizica Energiilor Înalte (VBLHEP)
55. Acord de colaborare între ISS şi IUCN Dubna (Rusia), Laboratorul Dzhelepov de Probleme Nucleare (DLNP)
56. Acord de colaborare între ISS-CERN (Elvetia) şi cadrul experimentului CLIC (Compact Linear Collider)
57. Acord de colaborare între ISS şi Institutul de Fizică Nucleară din Praga (Republica Ceha), Departamentul de Dozimetrie a Radiațiilor
58. Acord de colaborare ISS-Institutul de Fizică Nucleara Skobeltsyn al Universității Lomonosov din Moscova (Rusia) pentru misiunea spatială TUS
59. Parteneriat în cadrul unei initiative de cercetare spațială la nivel European, partenerariat BISA Belgia - ISS Filiala INFLPR - ROB Belgia - KU LEuven Belgia - MFGI Budapesta - IRF Suedia - IFW Graz - Univ Oulu Finlanda - SRC Polonia
60. Acord de colaborare între ISS – Asociatia Profesională Non-Profit RoGeniX.
61. Parteneriat international intre INFLPR, Ghent University, CENTEXBEL – Belgium, Centre for Textile Science and Technology, University of Minho, Portugal, Jozef Stefan Institute si Smart Com d.o.o, Slovenia

Lista nr.3 - Parteneri internaționali

Nr. Crt.	Parteneri internaționali INFLPR şi filiala ISS 2016
1.	RIKEN, Japonia
2.	Institut des Sciences des Materiaux (IS2M), Mulhouse, Franța
3.	Universitatea «Parthenope», Napoli (Italia),
4.	Institutul Federal pentru Cercetare şi Testări de Materiale – BAM (Germania),
5.	Univeristatea New South Wales, Sydney (Australia),
6.	Universitatea de Posta şi Telecomunicații din Beijing (China),
7.	Universitatea din Shanghai (China),
8.	Autoritatea Franceză pentru Gestionarea Deşeurilor Nucleare – ANDRA (Franta),
9.	Universitatea din Navara (Spania),
10.	Shandong Academy of Sciences (China)
11.	Ellinogermaniki Agogi, Atena (Grecia)
12.	UCL, The Institute of Education, Londra (Marea Britanie)
13.	The Open University, Londra (Marea Britanie)
14.	Artevelde University College, Ghent (Belgia)
15.	Fondation la Main a la Pate, Paris (Franţa)
16.	Ecole Nationale Superieure des Techniques Industrielles et des Mines de Nantes (Franţa)
17.	FREE University of Berlin (Germania)
18.	ST Patrick's College, Dublin (Irlanda)
19.	National Association of Natural Science Teachers, Napoli (Italia)
20.	VINČA Institute of Nuclear Sciences, Belgrad (Serbia)
21.	TRNAVA University, Trnava (Slovacia)
22.	University of Ljubljana (Slovenia)
23.	University of Leicester (Marea Britanie)
24.	Science Learning Centre, University of Education, Viena (Austria)
25.	DMN/SRMA-LA2M, LRC CARMEN CEA, CEA Saclay
26.	Department of Physics, Campus lane South, University of the Free State, Nelson Mandela
27.	extension, Bloemfontein, South Africa,
28.	Departament de Fisiologia; Facultat de Farmàcia, Universitat de Barcelona, Avda. Joan XXIII s/n, 08028-Barcelona-Spain;
29.	University of Belgrade, "Vinča" Institute of Nuclear Sciences, P.O. Box 522, Belgrade, Serbia; Max Planck Institute of Colloids and Interfaces, Potsdam, Germany;
30.	Department of Mechanical Engineering, Koc University, Rumelifeneri Yolu, Sariyer, Istanbul,
31.	Turkey;
32.	Laboratoire Ondes et Matière d'Aquitaine (LOMA), UMR CNRS 5798, Université Bordeaux 1, 351 Cours de la Libération, F-33405 TALENCE cedex, France;
33.	Medical College, Jagiellonian University, Sw. Anny 12, 31-008 Cracow, Poland; CNR – Istituto per l' Energetica e le Interfasi, 16149 Genova, Italy;
34.	Institute of Hygiene and Tropical Medicine (CMDT), Lisbon, Portugal
35.	Aristotle University of Thessaloniki, Department of Chemistry, 54124, Thessaloniki, Grece
36.	Instituto Médico Vilafortuny, Fundacion Antoni de Gimbernat, Cambrils, Spain
37.	Instituto Médico Laser, Madrid, Spain
38.	UFR-ST Laboratoire Chrono-Environnement UMR CNRS 6249, Université de Franche-Comté, Besancon Cedex, France, 25030
39.	Quantitative Light Imaging Laboratory, Department of Electrical and Computer Engineering, Beckman Institute for Advanced Science and Technology, University of Illinois at Urbana-

	Champaign, Urbana, Illinois 61801, USA
40.	New University of Lisbon, Faculty of Science and Technology-I3N/CENIMAT
41.	EUROFUSION
42.	FAIR
43.	Institute of Electronics, Bulgarian Academy of Sciences, Sofia, Bulgaria
44.	Tel Aviv University, Israel
45.	Ben Gurion University of the Negev, Beer-Sheva, Israel
46.	Institute of Fundamental Technological Research, Warsaw, Poland
47.	Institute of Physics, Czech Academy of Sciences, Prague, Czech Republic
48.	Institute of Electrochemistry and Energy Systems, Bulgarian Academy of Sciences, Sofia, Bulgaria
49.	Institute of Solid State Physics, Bulgarian Academy of Sciences, Sofia, Bulgaria
50.	Chuiko Institute of Surface Chemistry of National Academy of Sciences of Ukraine, Kyiv, Ukraine DMN/SRMA-LA2M, LRC CARMEN CEA, CEA Saclay
51.	Department of Physics, Campus lane South, University of the Free State, Nelson Mandela extension, Bloemfontein, South Africa
52.	UBT: UNIVERSITÄT BAYREUTH, Bayreuth, GERMANY
53.	THE UNIVERSITY OF LIVERPOOL, Liverpool, UNITED KINGDOM
54.	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, Châtenay-Malabry, France
55.	FRAUNHOFER GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG EV, Jena,
56.	GERMANY
57.	INSTITUTE FOR SINGLE CRYSTALS, NAS OF UKRAINE, Department of Crystalline Materials and Complex Compounds, 60 Lenin Ave., 61001, Kharkhov, Ukraine
58.	Institute de Recherches sur la Fusion Magnetique, CEA, Cadarache;
59.	Institute des Materiaux Jean Rouxel, CNRS, Universite de Nantes;
60.	Laboratoire d'Analyse et d'Architecture des Systemes, LAAS-CNRS, Toulouse, Montpelier University
61.	Joint Institute for Nuclear Research, Dubna
62.	Jozef Stefan Institute, Ljubliana, Slovenia
63.	Johannes Kepler University, Linz, Leibnitz Institute for Plasma Science
64.	Charles University. Praga
65.	Gent University, Gent
66.	Joint Institute for High Temperature Plasma, Russian Academy of Science Moscow
67.	VTT Finlanda
68.	IST Portugalia
69.	IPP Garching, Germania
70.	ITER Franța
71.	RBI Croația
72.	JET Anglia
73.	FZJ Germania
74.	Universitatea din Basel, Elvetia
75.	Departamentul de Teoria Plasmei, Laboratorul de Fizica Plasmei, Princeton (PPPL)
76.	Departamentul de Teoria Plasmei, Institutul Max-Planck de Fizica Plasmei,Garching, Germania
77.	Consorzio RFX (CNR, ENEA, INFN, Universita' di Padova, Acciaierie Venete SpA),Italia
78.	Universitatea Tor-Vergata, Roma, Italia
79.	CIEMAT, Spania
80.	CCFE, UK
81.	IRFM, CEA Cadarache, Franta
82.	Colaborarea CERN-ALICE, Elvetia
83.	Universitatea din Berna, Elvetia
84.	Institutul de Fizică Nucleară din Praga, Republica Ceha

85.	Institutul Tehnologic din Karlsruhe (KIT), Germania
86.	Bergische University of Wuppertal (WUB), Germania
87.	Deimos Space UK, Anglia
88.	Met Office, Anglia
89.	British Geological Survey, Anglia
90.	GFZ Potsdam, Germania
91.	DH Consulting, Olanda
92.	Universitatea Diderot, Paris, Franța
93.	Universitatea din Tuebingen, Germania
94.	Observatorul Regal al Belgiei, Belgia
95.	CERN – MOEDAL, Elvetia
96.	Institut Royale d'Aeronomie Spatiale de Belgique, Brussels, Belgium
97.	INAF Rome, Italy
98.	Univ Oulu Finlanda
99.	University of Colorado, Boulder, USA
100.	MIT, USA
101.	IFW Graz, Austria
102.	TU Braunschweig, Germania
103.	MFGI Budapest, Ungaria
104.	Asociatia Profesionala Non-Profit RoGeniX, Chicago, USA
105.	University Ghent, Department of Applied Physics - Research Unit Plasma Technology, Belgium
106.	University of Minho, Centre for Textile Science and Technology, Portugal
107.	CENTEXBEL, Belgium

Lista nr. 4 - Parteneriate interne : proiecte de cercetare – dezvoltare

Nr. Crt.	Parteneriate interne : proiecte de cercetare – dezvoltare INFLPR şi filiala ISS 2016
1.	IMT - Proiect 25-ELI: Fabricarea țintelor laser pentru experimente cu laseri ultra-intenși / TARGET.
2.	IFIN-HH - 24-ELI: Diagnostica temporală a plasmelor produse cu laser pentru accelerare de electroni, prevazute a fi utilizate la ELI-NP / TEDILAPLAS.
3.	IFIN-HH - 17-ELI: Structuri de ecranare electromagnetică pentru siguranța biologică în cursul desfăşurării experimentelor interacție laser țintă în unitățile laser PW / BIOSAFE.
4.	S.C. Apel Laser S.R.L
5.	Universitatea Tehnică "Gheorghe Asachi" din Iaşi
6.	SC Computer Power S.R.L.
7.	ISS
8.	Platforma senzitivă bazată pe interacții biomimetice pentru detecția rapidă a contaminanților din alimente/ SAFETYFOOD/UEFISCDI/PCCA 107-2012/2012-2016/; parteneri: Facultatea de Chimie a Universitătii Bucureşti, S.C. ROMQUARTZ S.A, Institutul Național de Cercetare-Dezvoltare pentru Electrochimie și Materie Condensată, Timișoara
9.	Tehnologii laser de texturare a lagarelor cu alunecare, UEFISCDI PNIII-PTE - Transfer to the economic agent, no. 29PTE/2016 2016-2018; parteneri: JNO Group, Politehnica Bucureşti.
10.	Nanostructuri feromagnetice/antiferomagnetice complexe cu proprietăți magnetice imbunătățite pentru aplicații în stocarea de date obținute prin depunere laser secvențiala/FANLAS/UEFISCDI/2012-2016; parteneri: INCDFM, Politehnica Bucureşti.
11.	„Straturi YBa2Cu3O7 groase cu parametri îmbunătățiți pentru acoperiri supraconductoare”/TYBCO/UEFISCDI/2012-2016; parteneri: INCDFM, Universitatea Tehnică Cluj-Napoca.
12.	Parteneriat cu ISS proiect – Parteneriate 2014- C 290/2014 THz – Detect
13.	Programul Parteneriate în domenii prioritare/2012-2016, PN-II-PT-PCCA-2011-3 - “Bio-nanofotonică pe baza de structuri supramoleculare de ADN pentru functionalități complet optice integrate”, Univ. POLITEHNICA Bucureşti – INFLPR, 2012-2016 (Responsabil partener INFLPR– Acad. Prof. Dr. Valentin I. Vlad)
14.	Program PARTENERIATE ÎN DOMENII PRIORITARE PN II, « Analiza compoziției oțelului lichid în situ şi in timp real prin LIBS şi spectrometrie de masă ale aerosolilor şi gazelor evacuate în timpul procesului de degazare în vid” -2014-2017,Facultatea de Chimie Aplicată şi Ştiința Materialelor, Parteneri: UNIVERSITATEA POLITEHNICA DIN BUCUREŞTI, ADREM INDUSTRIES SRL.
15.	Program STAR, “Ştiința şi tehnologia acoperirilor cu emisivitate ridicată pentru aplicații în radiatoare spațiale”-2013-2016, Parteneri: Institutul de Ştiințe Spațiale Filiala INFLPR, SC MGM Star Construct SRL
16.	Program STAR „Efectele radiației asupra oxizilor semicoductori şi amorfi folosiți pentru electronica pe substrat flexibil”-2013-2016, Parteneri: - Institutul de Ştiințe Spațiale Filiala INFLPR, Institutul Național de Cercetare-Dezvoltare pentru Fizica Materialelor
17.	Program PARTENERIATE ÎN DOMENII PRIORITARE PN II, „Fabricarea de implanturi ortopedice osteoinductive cu structura ierarhica 3D graduală”, 2012-2016, Parteneri : -

	Institutul de Biochimie al Academiei Române, Institutul de Biologie şi Patologie Celulară„Nicolae Simionescu”, Institutul Național de Cercetare-Dezvoltare pentru Fizica Materialelor, SC TEHNOMED IMPEX CO S.A
18.	UMF Carol Davila, Bucureşti, Clinica de Oftalmologie Proiect PN II 85/2012
19.	Universitatea Bucureşti, Facultatea de Biologie, Proiect PN II 85/2012
20.	Institutul de Fizică şi Inginerie Nucleară, Măgurele, Proiect PN II 85/2012
21.	Institutul de Cercetari al Universității din Bucureşti, Proiect PN II 85/2012
22.	Spitalul Militar Central, Clinica de ORL, Bucureşti, Proiect Nucleu 4N/2016
23.	Institutul de Fizică si Tehnologia Materialelor, Măgurele, Proiect Nucleu 4N/2016
24.	UMF Bucureşti, Carol Davila, Spitalul Clinic de Urgențe Oftalmologice din București, Proiect PN II 85/2012
25.	ICECHIM, Bucureşti, Proiect PN II 85/2012, Proiect Nucleu 4N/2016
26.	UMF Bucureşti, Carol Davila, Departamentul de Boli Tropicale, Spitalul Clinic de Boli Infecțioase şi Tropicale „Dr. Victor Babes”, Bucureşti- Propunere proiect PCCF 2016. (cod: PN-III-P4-ID-PCCF-2016-0046)
	Proiectul PCCA PN2 nr. 186/2012, MOVITOPT, „Noi materiale vitroase magneto-optice cu aplicații in optoelectronică”, 2012-2016, Parteneri: Institutul Național de Cercetare Dezvoltare pentru Optoelectronică INOE 2000 CO; Institutul Național de Cercetare Dezvoltare pentru Fizica Materialelor; Universitatea Politehnică din Bucureşti; S. C. Pro Optica S. A.
27.	Universitatea din Craiova
28.	Universitatea «Transilvania» din Brasov
29.	Institutul de Biochimie din Bucureşti
30.	Program PARTENERIATE ÎN DOMENII PRIORITARE PN II, « Analiza compoziției oțelului lichid în situ şi în timp real prin LIBS şi spectrometrie de masa ale aerosolilor şi gazelor evacuate în timpul procesului de degazare în vid” -2014-2017,Parteneri: -Facultatea de Chimie Aplicată şi Ştiința Materialelor- UNIVERSITATEA POLITEHNICA DIN BUCUREŞTI, ADREM INDUSTRIES SRL
31.	Program STAR, “ Ştiința şi tehnologia acoperirilor cu emisivitate ridicată pentru aplicații in radiatoare spațiale”-2013-2016, Parteneri :- Institutul de Ştiințe Spațiale Filiala INFLPR, SC MGM Star Construct SRL
32.	Program STAR „Efectele radiației asupra oxizilor semicoductori şi amorfi folosiți pentru electronică pe substrat flexibil”-2013-2016, Parteneri: - Institutul de Ştiințe Spațiale Filiala INFLPR, Institutul Național de Cercetare-Dezvoltare pentru Fizica Materialelor
33.	Program PARTENERIATE ÎN DOMENII PRIORITARE PN II, „Fabricarea de implanturi ortopedice osteoinductive cu structura ierarhică 3D graduală”, 2012-2016 Parteneri : Institutul de Biochimie al Academiei Române, Institutul de Biologie şi Patologie Celulară „Nicolae Simionescu”, Institutul Național de Cercetare-Dezvoltare pentru Fizica Materialelor, SC TEHNOMED IMPEX CO S.A
34.	Program PARTENERIATE ÎN DOMENII PRIORITARE PN II, „ Nano-materiale complexe fotoactive pentru producerea de energie cu impact minim asupra mediului şi degradarea poluanților organici ”, 2012-2016 Parteneri : Universitatea «Transilvania» din Brasov, Institutul National de Cercetare-Dezvoltare pentru Fizica Materialelor, SC MGM Star Construct SRL
35.	CCA6/2012 – ICMPP, IFIN-HH, UPB
36.	PCCA17/2012 – SITEX 45, INOE 2000
37.	PCCA 137/2012 – UB, ICECHIM
38.	PCCA146/2012 – ICMPP, ICPE-CA

39.	PCCA34/2014 – OPTOELECTRONICA, Institutul Cantacuzino
40.	PCCA38/2014 – PRO OPTICA, IMT, INCDFM
41.	PCCA239/2014 – UPB, UB, IBAR, RD, TEHNOMED
42.	PCCA213/2014 – UPB, UB, TEHNOMED
43.	PCCA12/2014 – UNIV.Craiova,
44.	PCCA 245/2014 - IMT, ICPE-CA, OPTOELECTRONICA – 2001
45.	PCCA78/2014 - UPB, ICF
46.	Proiect 58/2012, PN-II-PT-PCCA-2011-3.2-1040, ”Sistem Laser pentu Aprinderea Motoarelor de Automobil / LASSPARK,” 2012-2017 Partener: RENAULT TECHNOLOGIES ROUMANIE S.R.L (RTR)
47.	Contract 10/ PN II, Programul PARTENERIATE, PN-II-PT-PCCA-2013-4-1488, „Noi cristale de inaltă performanță pentru dezvoltarea de surse laser de mare putere acordabile în domeniul vizibil bazate pe procese optice neliniare - NOVILAS,” 2014 - 2017 Parteneri: INSTITUTUL NAŢIONAL DE CERCETARE-DEZVOLTARE PENTRU FIZICA MATERIALELOR (INCDFM), Apel Laser SRL
48.	Institutul Național de Cercetare-Dezvoltarea de Fizica Materialelor (INCDFM)
49.	Universitatea din Craiova, Facultatea de stiinte aplicate
50.	Institutul Național de Cercetare-Dezvoltare pentru Fizica şi Inginerie Nucleară Horia Hulubei (IFIN-HH), Măgurele
51.	Universitatea din Bucureşti (Facultatea de Fizică, Chimie, Biologie), Bucureşti
52.	Universitatea “Alexandru Ioan Cuza” din Iaşi (UAIC), Iaşi
53.	Institutul de chimie macromoleculară Petru Poni Iași
54.	Institutul De Chimie Fizică “Ilie Murgulescu” (ICF), Bucureşti
55.	Institutul Național de Cercetare-Dezvoltare pentru Ştiințe Biologice (INCDSB), Bucureşti.
56.	Institutul National de Cercetare-Dezvoltare pentru Microtehnologie (INCDMT), Bucureşti
57.	Institutul National de Cercetare-Dezvoltare de Optoelectronică (INOE 2000), Magurele-
58.	Universitatea Petrol-Gaze din Ploiesti (UPG), Ploiesti
	IFA/Extreme Light Induced Ablation Plasma Jet And Nanopatterning /ELI-03/IFA/30.06.2014-30.06.2016 ;
59.	Universitatea Tehnică „Gheorghe Asachi” Iaşi
60.	Institutul Cantacuzino
61.	Universitatea Politehnică din Bucureşti (UPB)
62.	Proiect “Utilizarea Plasmelor reci pulsate la presiune Atmosfericã pentru distrugerea Microorganismelor de pe suprafaţa Ouãlor de consum, în vederea creşterii Siguranţei alimentare (PATMOS)” – Parteneriate 2013 - Contract de finantare 141/2014,Parteneri: SC Avicola Bucureşti SA
63.	Institutul Naţional de Cercetare-Dezvoltare pentru Bioresurse Alimentare,
64.	ICSI Rm. Vâlcea
65.	INOE
66.	Accent 2000 SRL
67.	Facultatea de Fizică, UB
68.	Universitatea de Ştiinţe Agronomice şi Medicină Veterinară
69.	Polielectroliţi prietenoşi mediului pe bază de biopolimeri, obţinuţi prin grefare indusă cu fascicul de electroni, pentru îmbunătăţirea parametrilor de calitate a apelor de suprafaţă şi reziduale-(FLAMIR) PCCA 2-2012-2016
70.	Procese ecologice de extracție a compuşilor valoroşi din plante (ECOVALUEPLANT)-PCCA 2013-2017
71.	Tehnologie pentru înlaturarea prafului de pe suprafețe pe Marte (TECHDUSTMARS)-

	ROSA STAR 2013-2016
72.	EURATOM –WPMAT
73.	Accelerarea de electroni în plasma produsa de laseri de putere la 1 GeV (LAPLACE)-ELI-RO 2014-2016
74.	Parteneriat intern cu Institutul Național de Cercetare - Dezvoltare pentru Optoelectronică (INOE) pentru participarea la competițiile naționale de proiecte din 2016
75.	Parteneriat intern cu Institutul Național de Cercetare – Dezvoltare pentru Fizică şi Inginerie Nucleară - Horia Hulubei (IFIN-HH) pentru participarea la competițiile naționale de proiecte din 2016
	Parteneriat intern cu Institutul Național de Cercetare-Dezvoltare pentru Fizica Pământului (INCDFM) pentru participarea la competițiile naționale de proiecte din 2016
76.	Parteneriat intern cu CS-România pentru participarea la competițiile naționale de proiecte din 2016
77.	Parteneriat intern cu Institutul Național de Cercetare-Dezvoltare în Mecatronică şi Tehnica Măsurărilor (INCDMTM) în cadrul proiectului PCCE 279/2014.
78.	Parteneriat intern cu S.C. Optoelectronica 2000 S.A. în cadrul proiectului UEFISCDI-PCCA 279/2014.
79.	Parteneriat intern cu Zitec în cadrul proiectului ESA-PRODEX/C4000116411
80.	Acord de colaborare între ISS şi INFLPR – în cadrul proiectului proiectul "Interacțiuni atomice în câmpuri supracritice: investigații preliminare pentru contribuția in-kind la SPARC" contract nr. 01-FAIR/16.09.2016
81.	Acord de colaborare între ISS, IFIN şi INFLPR încheiat în cadrul Programului CAPACITATI, Modulul III - Program RO-CERN (ELI-NP; FAIR) "Interacțiuni atomice în campuri super-critice: investigații teoretice şi experimentale pentru FAIR/SPARC" contract nr. F 03/2014 (2014-2016)
82.	Parteneriat cu Universitatea Tehnică Cluj Napoca - software imbarcabil
83.	Parteneriat cu Universitatea Dunarea de Jos Galati - studiul ionosferei
84.	Parteneriat intern cu Universitatea Transilvania din Brasov
85.	Parteneriat intern cu Institutul Național de Cercetare Dezvoltare în Constructii Urbanism şi Dezvoltare Teritorială Durabilă
86.	Parteneriat intern cu Universitatea din Piteşti
87.	Parteneriat intern cu Institutul Național de Cercetare pentru Sport din Bucuresti – INCS
88.	Parteneriat intern cu Institutul de Biochimie al Academiei Române – IBAR
89.	Parteneriat intern cu Centrul Internațional de Cercetare şi Educație în Tehnologii Inovativ Creative – CINETic
90.	Parteneriat intern cu SC BIOMA R&D
91.	Parteneriat intern cu SC Vision Systems SRL
92.	Parteneriat intern cu INFLPR in cadrul proiectului " Instrument de spectroscopie în domeniul undelor milimetrice (THz) pentru identificarea substantelor periculoase THz-DETECT PN-II-PT-PCCA-2013-4-0967 "
93.	Parteneriat intern cu Centrul de Cercetare pentru Optoelectronică, dezvoltat în cadrul (UPB-CCO) in cadrul proiectului " Instrument de spectroscopie in domeniul undelor milimetrice (THz) pentru identificarea substanțelor periculoase THz-DETECT PN-II-PT-PCCA-2013-4-0967 "
94.	Parteneriat intern cu Compania UTI GRUP S.A. în cadrul proiectului " Instrument de spectroscopie în domeniul undelor milimetrice (THz) pentru identificarea substantelor periculoase THz-DETECT PN-II-PT-PCCA-2013-4-0967 "
95.	Parteneriat intern cu ROSA în cadrul proiectului

	"Modular Nanosatellite Platform for Observation and Measurements on the Low Earth Orbit"
96.	Parteneriat intern cu UPB-CCAS în cadrul proiectului "Modular Nanosatellite Platform for Observation and Measurements on the Low Earth Orbit"
97.	Parteneriat intern cu Institutul Național de C-D pentru Optoelectronică (Centrul pentru teledetecția atmosferei şi aplicații spațiale CARESSE) in cadrul proiectului "Romanian Cluster for Earth Observation RO-CEO"
98.	Parteneriat intern cu Institutul Național de Cercetare-Dezvoltare Marina "Grigore Antipa" în cadrul proiectului "Romanian Cluster for Earth Observation RO-CEO"
99.	Parteneriat intern cu Institutul Național de Cercetare-Dezvoltare Marina "Grigore Antipa" în cadrul proiectului "Romanian Cluster for Earth Observation RO-CEO"
100.	Parteneriat intern cu Institutul Național de Cercetare-Dezvoltare în Silvicultură „Marin Drăcea" în cadrul proiectului "Romanian Cluster for Earth Observation RO-CEO"
101.	Parteneriat intern cu UPB – Centrul de Cercetare pentru Informație Spațială în cadrul proiectului "Romanian Cluster for Earth Observation RO-CEO"
102.	Parteneriat intern cu S.C. TERRASIGNA S.R.L în cadrul proiectului "Romanian Cluster for Earth Observation RO-CEO"
103.	Parteneriat intern cu S.C. TEAMNET SOLUTIONS INTERNATIONAL S.R.L în cadrul proiectului "Romanian Cluster for Earth Observation RO-CEO"
104.	Parteneriat intern cu ROSA în cadrul proiectului "GNSS environment and user requirements characterization on Danube River" (ESA Contract No. 4000115459/15/NL/MM)
105.	Parteneriat intern cu UPB în cadrul proiectului " Developing a Galileo Vector Processing Receiver for Difficult Signal Conditions" (ESA Contract Nr. 4000114741/15/NL/MM)
106.	Parteneriat intern cu ICPE în cadrul proiectului "Electric Motor Spin Into Space EMSIS" (ESA Contract No. 4000111083/14/NL/CBi)
107.	Parteneriat intern cu RARTEL în cadrul proiectului "TT&C Scheduler" (Contract ESA 4000111062/14/D/MRP) TT&C

Lista nr. 5 - Participare în comisii de evaluare concursuri naționale și internaționale

Participare în comisii de evaluare concursuri naționale si internaționale INFLPR şi filiala ISS 2016
1. Membru in Juriul de acordare de catre Ambasada Franței în Romania al burselor de masterat şi doctorat în cotutela între Romania şi Franța (Dr. Felix Sima). 2. Dr. M.L.Pascu: a) Belgia: Competiția pentru finanțarea de proiecte naționale belgiene, SEMAPHORE , sesiunea martie 2016; b) Polonia: Competiția lansata de Național Science Center, sesiunea octombrie 2016; c) Portugalia: Rețea europeană: conservarea calității apelor, call 2016; d) Competiția COST call for new proposals, sesiunea septembrie 2016; e) Fulbright: Competition for Postdoctoral Fellwoships 2017 – 2018, session 2016. 3. Membru in comisie de doctorat a studentului Emmerson Coy de la Universitatea Barcelona Spania- Dr. Valentin Craciun. 4. Membru in comisie doctorat al studentului Markus Pichler - ETH Zurich – Departamentul de Chimie (Elvetia), Dr. Maria Dinescu. 5. Membru in comisie doctorat al studentului ELLI SYMEOU, DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING, Universitatea din Larnaca, Cipru, Dr. Maria Dinescu. 6. Membru in comisie doctorat al studentului Camilo Florian Baron, Physics Faculty, Universitatea din Barcelona, Spania, Dr. Maria Dinescu. 7. Membru in comisie doctorat a studentei Liliana-Marinela TRINCA (Universitatea BucurestI), Dr. Maria Dinescu. 8. Membru in comisie doctorat a studentului Catalin Palade (Universitatea BucurestI), Dr. Maria Dinescu. 9. Participare in juriu teză de doctorat: a. Dr. Gheorghe Dinescu, in calitate de Conducator Ştiintific şi referent al lucrării „Diagnostica de neutroni a plasmelor de fuziune utilizând detectori cu fluid supraîncălzit”, teza de doctorat sustinută de Simona Mihaela Gherendi, Scoala Doctorala de Fizică, Universitatea Bucuresti; b. Dr. Gheorghe Dinescu, in calitate de membru in juriu al tezei “Synthesis and characterization of complex nano-structures at the interface with biological medium” prezentata de catre Roxana Jijie teza in cotutela Romania-Franta, Universitatea Alexandru Ioan Cuza din Iaşi, Facultatea de Fizică şi Universitatea din Lille. 10. Participare comisii de abilitare: a. Dr.Gheorghe Dinescu in calitate de membru in juriu pentru abilitarea d-nei Cristina STAN, Universitatea Politehnică, Bucuresti: Nonlinear Dynamics, Noise and Chaos Control: experiment and modeling in low temperature discharge plasmas and other nonlinear systems; b. Dr. Gheorghe Dinescu in calitate de membru in juriu pentru abilitarea d-nei Gabriela Borcia, Universitatea “Alexandru Iona Cuza” din Iasi: Polymer materials. Atmospheric -pressure plasma processing. 11. Participare in calitate de evaluator al proiectelor Horizon 2020 , competitia MSCA-ITN – 2016, competiția FET OPEN 2016, Dr. Bogdana Mitu.

Lista nr.6 - Personalități științifice ce au vizitat institutul

Personalități științifice ce au vizitat institutul 2016
1. Lourdes Alwis, Lecturer in Electrical Engineering School of Engineering and the Build Environment, Edinburgh Napier University, Scotland UK. 27.06.2016; 2. Prof. David B. Geohegan, Center for Nanophase Materials Sciences, Oak Ridge National Laboratory, Oak Ridge, TN, USA. 05.09.2016; 3. Vizita din partea "Universitatea Burgos", Spania - Directorul Centrului de Cercetări Materiale Critice, 10.11.2016; 4. Vizită în vederea stabilirii de activități experimentale pentru viitoare proiecte, din partea "European Space Agency", "Stracthclyde University" - Glasgow, Marea Britanie, "Rutherford Appleton Laboratory", Marea Britanie, 23.11.2016; 5. Visita CNSA - China National Space Administration , 25/11/2016. 6. Vizita ESA - Discutii proiect ESA utilizand Laserul CETAL-PW, 29.11.2016; 7. Dr. Aristide Dogariu, Stochastic optical sensing, Pegasus Professor of Optics & Photonics, Center for Research and Education in Optics and Lasers (CREOL), Florida Photonics Center of Excellence (FPCE), at the University of Central Florida, Orlando, USA.. 13.12.2016 ; 8. Vizita Dr. Carmen Galassi, Group Leader at Materials and Electromechanics Colloidal Processing from Institute of Science and Technology for Ceramics, Faenza, Italy, 14.12.2016; 9. Acad. Prof. Ion Tighineanu, Prim-Vicepresedinte al Academiei de Ştiințe a Moldovei, Fondator şi Director al Centrului National pentru Studiul şi Testarea Materialelor, Moldova 10. Prof. Dr. Sune Svanberg, Universitatea din Lund, Suedia 11. Prof. Dr. Emanoil Ceausu, UMF Carol Davila, Departamentul de Boli Tropicale, Bucuresti, Spitalul de Boli Infecțioase şi de Boli Tropicale - Victor Babes, Bucureşti 12. Dr. Santiago Guesta Lopez, Universitatea Burgos Spania, Directorul Centrului de Cercetari Materiale Critice, 10.11.2016 13. Prof. Dr. Annie Klisnick, Universite Paris-Sud, Franța 14. Prof. Dr. Thomas Kuhl, GSI, Germania 15. Prof. Dr. Jørgen Schou , Technical University of Denmark 16. Prof. Dr. Thomas Lippert, PSI, ETH Zurich, Elvetia 17. Prof. Dr. Richard Haglund, Vanderbilt University (USA) 18. Dr. R. Yavetskiy, Department of Crystalline Materials of Complex Compounds, Institute for Single Crystals, NAS (National Academy of Sciences) of Ukraine 19. Dr. LORENZ Sebastian, UNIVERSITÄT BAYREUTH (UBT) Universität Strasse 30, Bayreuth 95447, GERMANY 20. Prof. Dr. DEARDEN Geoffrey, THE UNIVERSITY OF LIVERPOOL (UL), Brownlow Hill Street 765, Foundation Building, Liverpool L697ZX, UNITED KINGDOM 21. Prof. Dr. ZIMMER Laurent, CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), Rue Michel – Ange 3, Paris 75794, France 22. Dr. STANCU Gabi Daniel, CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), Rue Michel – Ange 3, Paris 75794, France 23. Dr. BECKERT Erik, Fraunhofer Institute for Applied Optics and Precision Engineering (IOF), Albert-Einstein-Strasse 7, Jena 07745, GERMANY 24. Mr. BÄRWINKEL Mark, UNIVERSITÄT BAYREUTH (UBT) Universität Strasse 30, Bayreuth 95447, GERMANY 25. Prof. Dr. DEARDEN Geoffrey, THE UNIVERSITY OF LIVERPOOL (UL), Brownlow Hill Street 765, Foundation Building, Liverpool L697ZX, UNITED KINGDOM 26. Dr. BECKERT Erik, Fraunhofer Institute for Applied Optics and Precision Engineering (IOF),

Albert-Einstein-Strasse 7, Jena 07745, GERMANY

27. Professor Emeritus WINTNER Ernst, Photonics Institute, Vienna Institute of Technology, Gusshausstrasse 27, 1040 Vienna, AUSTRIA
28. Dipl. Ing. KROUPA Gerhard, Carinthian Tech Research (CRT), Europastrasse 12 9524 Villach, 9524 Villach, AUSTRIA
29. Mr. BÖRNER Michael, German Aerospace Center (DLR), Institute of Space Propulsion, 74239 Hardthausen, Germany
30. Jari Linkonen, VTT Finlanda
31. Antti Hakola, VTT Finlanda
32. Cedric Pardanaud, CEA Franța
33. Laurent Marot, Universitatea din Basel, Elveția
34. Christian Grisolia, IRFM CEA, Cadarache, Franța
35. Prof Andrei Faron, Materials Science and Medical Engineering, California Institute of Technology, Pasadena, CA, USA
36. I-Che Chen, Chun-Hui Yu, Fu-Jen Kao, Institute of Biophotonics, National Yang Ming University, Taipei, Taiwan
37. Vizita Rectorului Agenției ``Agence universitaire de la Francophonie``, Bureau Europe centrale et orientale
38. Vizita Ass. Prof. Anton Nikiforov, University Ghent, Department of Applied Physics - Research Unit Plasma Technology, Sint-Pietersnieuwstraat 41, Belgium
39. Vizita Prof. AP Souto, Dr. Andrea Zille, Centre for Textile Science and Technology, University of Minho, Portugal
40. Vizita ministrului marocan al învatamantului superior, cercetării ştiintifice şi formării de personal, Lahcen Daoudi, martie 2016, vizita solicitată de Ambasada Romaniei de la Rabat, Maroc, sprijinită de Ministerul Educației Naționale şi Cercetării Ştiințifice
41. Vizita unor grupuri de cercetatori de la ``Institutul de Cercetare Petrol şi Gaze`` şi a unor ingineri şi experti ai OMV Petrom
42. Vizita Delegatiei Chineze condusă de vicepresedintele Academiei de Ştiinte Chineze, Wang Enge
43. Vizita unui grup din diferite tări şi organizații: Universitatea din Valencia, Spania; Spitalul din Monpellier, Franța; instituții din Austria
44. Vizita unui grup format din 71 persoane provenind din instituții de stat şi private dintre care amintim: Metrorex, Ministerul Fondurilor Europene, Ratb, CFR, UTCB, Universitatea Tehnică Brasov, Simens, Esim Group, Romkatel , Railway Pro, vizită condusă de Dl. Octavian Udriste- Honorary Chairman - Club Feroviar şi Dl. Cosmin Botez - Senior Partner - Club Feroviar

Lista nr. 7 - Lecții invitate, cursuri și seminarii susținute de personalitățile științifice invitate

Lecții invitate, cursuri și seminarii susținute de personalitățile științifice invitate INFLPR şi filiala ISS 2016
1. Lourdes Alwis, “Optical fibre grating based sensors and applications”, 27.06.2016 Sala CETAL. 2. Aristide Dogariu, “Stochastic optical sensing”, 13.12.2016 - Sala CETAL. 3. Prof. David B. Geohegan, Center for Nanophase Materials Sciences, Oak Ridge National Laboratory, Oak Ridge, TN, USA, "Laser Interactions to Understand the Synthesis and Optoelectronic Functionality of Atomically-Thin Nanostructures at the CNMS", 6 septembrie 2016 - Sala CETAL. 4. Aristide Dogariu, „Non-imaging statistical method for characterizing scattering media,” 13 dec. 2016 5. Dr. Jørgen Schou, Technical University of Denmark, „Pulsed laser deposition of the chalcogenide solar cell absorber materials CZTS (Cu,Zn,Sn,S): Strong deviations from stoichiometry” 6. Dr. R. Yavetskiy, Department of Crystalline Materials of Complex Compounds, Institute for Single Crystals, NAS (National Academy of Sciences) of Ukraine: "Development of transparent ceramics at Intitute for Single Crystals of NAS of Ukraine" (12 octombrie 2016). 7. Prezentare invitată la Festivitatea de Absolvire a Facultății de Fizică a Universității Craiova „ Istorie şi Persepective în Fuziunea Termonucleară” F. Spineanu, 25 mai 2016.

Lista nr.8 - Membri în colectivele de redacție ale revistelor recunoscute ISI (sau incluse în baze internaționale de date) și în colective editoriale naționale și/sau internaționale

Membri în colectivele de redacție ale revistelor recunoscute ISI (sau incluse în baze internaționale de date) și în colective editoriale naționale și/sau internaționale INFLPR și filiala ISS 2016		
Titlu	**Revista**	**Numele si prenumele persoanelor**
Membru colectiv	Journal of Nano Research	Dr. Valentin Craciun
Membru colectiv	Applied Surf. Sci., guest editor vol. 381	Dr. Valentin Craciun
Editor editura internațională	Applied Surf. Sci vol: 352 ,	Dr. Valentin Craciun
Asistent editor	Biomater. Tissue Engin. Bulletin	Dr. Oana Fufa
Editor şef	ROMANIAN REPORTS IN PHYSICS	Acad. Prof. Dr. Valentin I. Vlad
Editor şef	PROC. RO. ACADEMY A	Acad. Prof. Dr. Valentin I. Vlad
Membru al Comitetului editorial	OPTOELECTRONICS AND ADVANCED MATERIALS - RAPID COMMUNICATIONS	Acad. Prof. Dr. Valentin I. Vlad
Membru al Comitetului editorial	JEOS	Acad. Prof. Dr. Valentin I. Vlad
Membru al Comitetului editorial	AXIOMS	Acad. Prof. Dr. Valentin I. Vlad
Director si membru al Consiliului editorial	ACADEMICA	Acad. Prof. Dr. Valentin I. Vlad
Editor şef	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS	Dr. Adrian Petris
Editor şef	OPTOELECTRONICS AND ADVANCED MATERIALS - RAPID COMMUNICATIONS	Dr. Adrian Petris
Membru al Comitetului editorial	ROMANIAN REPORTS IN PHYSICS	Dr. Adrian Petris
Membru Editorial Board	Photomedicine and Laser Surgery (USA), since 2005	Dr. M.L.Pascu
Membru Editorial Board	Lasers in Medical Science, (UK), since 2000	Dr. M.L.Pascu
Membru Editorial Board	Letters in Drug Design & Discovery - LDDD (US), since 2006.	Dr. M.L.Pascu
Membru Editorial Board	International Journal of Radiation Biology, since 2011	Dr. M.L.Pascu
Membru Editorial Board	Biochemistry & Pharmacology, since 2012	Dr. M.L.Pascu
Membru Editorial Board	DOVE GROUP Journals	Dr. M.L.Pascu
Reviewer	International Journal of Radiation Biology	Dr. M.L.Pascu
Reviewer	PLOS ONE	Dr. M.L.Pascu
Reviewer	Journal of Biophotonics	Dr.M.L.Pascu

Reviewer	Journal of Photochemistry and Photobiology	Dr. M.L.Pascu
Reviewer	MOLECULES	Dr. M.L.Pascu
Reviewer	Journal of Photochemistry and Photobiology A: Chemistry	Dr.M.L.Pascu
Reviewer	Journal of Photochemistry and Photobiology A: Chemistry	Dr. A.Staicu
Reviewer	Journal of Physical Chemistry	Dr. A.Staicu
Reviewer	Photomedicine and Laser Surgery (USA)	A.Smarandache
Membru Colectiv	Chemical Sensors	Prof. Dr. Ion N. Mihailescu
Membru Colectiv	ISRN (International Scholarly Research Network) Spectroscopy	Prof. Dr. Ion N. Mihailescu
Membru Colectiv	Journal of Intense Pulsed Lasers and Applications in Advanced Physics	Prof. Dr. Ion N. Mihailescu
Membru Colectiv	Journal of Optoelectronics and Advanced Materials	Prof. Dr. Ion N. Mihailescu
Membru Colectiv	Revue des Technologies Avancées	Prof. Dr. Ion N. Mihailescu
Membru Colectiv	Chalcogenide Letters	Prof. Dr. Ion N. Mihailescu
Co-Editor	Applied Surface Science	Dr. Maria Dinescu
Membru Colectiv	European Journal of Chemistry	Andrei Rotaru
Membru in ”Editorial and Advisory Board”	Romanian Journal of Physics	Voicu LUPEI (http://www.nipne.ro/rjp/editorial.html)
Membru in the Program Committee, 4th Laser Ignition Conference 2016, 18-20 May 2016, Yokohama, Japan (http://opic-opic.sakura.ne.jp/lic/archives/2016/committee.html)		Dr. PAVEL Nicolaie
Membru colectiv de redactie	Plasma processes and polymers	Dr. Gheorghe Dinescu
Referent	Physics of Plasmas (SUA)	Dr. Ticos Catalin M.
Referent	Nuclear Physics A, Elsevier Publishing	Alexandru Dobrin
Referent	European Physical Journal C, Springer Publishing	Alexandru Dobrin
Member of the Editorial Board	Journal of Particle Physics (Isaac Scientific Publishing)	Felea Daniel

Anexa 2: CONTRACTE/VENITURI

INFLPR 2016				
Nr. Crt.	**Număr contract**	**Denumire contract**	**Valoare contract**	**Sursa de finanțare**
1.	Poz 10 si 11 HG	Instalatii de Interes National	977.795,49	Buget de stat
2.	4N	LAPLAS NUCLEU	26.000.000,00	Buget de stat
3.	Idei 71/2011	Light triggering of drug carrier systems for targeted delivery and controlled release	298.235,30	Buget de stat
4.	Idei 63/2011	Novel laser ablation-assisted technique for pure single- walled carbon nanotube synthesis	300.878,94	Buget de stat
5.	Idei 80/2011	Novel approach to nanoscale multi-functional materials, to reduce toxics and bacteria and to manage resources more effeciently	299.878,03	Buget de stat
6.	Idei 209/2011	Functionalized flavonoid_ biopolymer nanostructured composites processed for antibacterial activity	242.203,63	Buget de stat
7.	Idei 304	"Nano-senzori multiparametrici de oxizi metalici obtinuti prin tehnologii avansate"	336.459,21	Buget de stat
8.	Idei 337	"Studiul propietatilor filmelor subtiri de Zrc pt.aplicatii in acoperirea combustibilului nuclear"	334.140,76	Buget de stat
9.	Idei 33/2013	"Investigarea mecanismelor de formare a nanostructurilor in experimente cu rezolutie temporala ultrainalta"	392.793,00	Buget de stat
10.	idei 52/2013	"Realizarea tranzistorilor cu filme subtiri, transparente si flexibile din oxizi amorfi depusi prin ablatie laser"	416.479,00	Buget de stat
11.	Idei 85/2013	"Procesarea si imobilizarea materialelor nanocompozite pe baza de carbon prin tehnici laser pentru dispozitive optoelectonice de inalta performanta"	477.905,00	Buget de stat
12.	Idei 82/2012	Procese de conversie superioara infrarosu-infrarosu si infrarosu-ultraviolet in fosfori dopati cu pamanturi rare	321.234,57	Buget de stat
13.	Idei 35/2011	Procese de conversie cuantica a excitatiei in surse fotonice cu prospect pentru producere de energie sustenabila	292.119,48	Buget de stat
14.	Idei 36/2011	Laseri de Tip Ghid de Unda obtinuti prin Tehnica Scrierii Directe cu Pulsuri, Laser cu durata de ordinul Femtosecondelor	317.805,16	Buget de stat
15.	Idei 37/2011	Pulsuri TeraHertzi ultraintense obtinute in plasma generata de pulsuri laser ultrascurte , de mare intensitate	234.973,66	Buget de stat

16.	Idei 309/2011	Temporally and spectrally resolved luminescence of lanthanide's doped tetravalent nano-oxides: A unitaru approach	276.337,09	Buget de stat
17.	IDEI 196/2011	Filme subtiri de oxid de zinc multifunctionale	265.778,76	Buget de stat
18.	Idei 90/2011	Electron acceleration and polaritonic transport by laser-plasma interaction in new capillary configuration	121.067,66	Buget de stat
19.	Idei 4/2011	Giga and tera-watt laser interaction with carbon, tungsten and beryllium films	265.790,85	Buget de stat
20.	Idei 322/2011	Evaluation of an original alternative to treat osteomyelitis using an animal experimental model	273.347,39	Buget de stat
21.	Idei 81/2013	Diagnostica de procesare cu plasma: sinteza de nanofibre versus sinteza peretilor nanometrici de carbon	409.411,00	Buget de stat
22.	Parteneriat 107/2012	Platforma senzitiva bogata pe interactii bionimetice pentru detectia rapida a contaminatilor din alimente	228.865,00	Buget de stat
23.	Parteneriat 186/2012	Noi materiale vitroase magneto-optice cu aplicatii in optoelectronica	89.854,00	Buget de stat
24.	Parteneriat 153/2012	Fabricarea de implanturi ortopedice osteoinductive cu structura ierarhica 3D graduala	142.679,00	Buget de stat
25.	Parteneriat 3/2012	Bio-nanofotonica pe baza de structuri supramoleculare de AND pentru functionalitati complet optice integrate	224.850,00	Buget de stat
26.	Parteneriat 1/2012	Ultrafast laser Facility with Optimized high order harmonics UltraViolet sources	133.817,00	Buget de stat
27.	Parteneriat 137/2012	Filme nanocompozite hibride (inorganice-organice) pe baza de hidroxizi dublu stratificati (LDH) cu suprafete hidrofobice si/sau cu rol de acoperiri protective	202.664,00	Buget de stat
28.	Parteneriat 17/2012	Nanostructuri bazate pe noi compusi organometalici pentru aplicatii in electronica	178.532,00	Buget de stat
29.	Parteneriat 6/2012	Structuri tridimensionale stimulate electric pentru ingineria tesuturilor	142.524,00	Buget de stat
30.	Parteneriat 184/2012	Sistem de imaginistica optica multimodala pentru detectia intraoperativa a marginilor pozitive a tumorilor	169.573,00	Buget de stat
31.	Parteneriat 162/2012	Complex high surface area photoactive nano-materials for environmentally- friendly energy production and organic pollutants degradation	165.908,00	Buget de stat
32.	Parteneriat 146/2012	Scriere directa cu laserul a materialelor compozite polimeri-grafene	145.428,00	Buget de stat
33.	Parteneriat 7/2012	"Nanostructuri feromagnetice/antiferomagnetice complexe cu proprietati magnetice imbunatatite pentru aplicatii in stocarea de date obtinute prin depunera laser secventiala (FANLAS)	308.400,00	Buget de stat
34.	Parteneriat 138/2012	"Straturi YBa2Cu3O7 groase cu parametri imbunatatiti pentru acoperiri supraconductoare"	142.046,00	Buget de stat

35.	Parteneriat 85/2012	"Modelarea si simularea activitatii pompelor de eflux bacteriene prin metode laser avansate"	180.328,00	Buget de stat
36.	Parteneriat 38/2014	Acoperiri antireflex pentru laseri de mare putere in pulsuri ultra-scurte	223.123,00	Buget de stat
37.	Parteneriat 239/2014	Noua generatie de implanturi ortopedice bazate pe noi bioaliaje de Ti cu invelisuri biomimetice hibride	112.701,00	Buget de stat
38.	Parteneriat 34/2014	Aplicarea de tehnici laser pentru fabricarea de biosenzori pe baza de sisteme micofluidice de detectie in timp real	190.626,00	Buget de stat
39.	Parteneriat 245/2014	Implanturi ortopedice obtinute din aliaje multifunctionale tip "Gum	44.004,00	Buget de stat
40.	Parteneriat 12/2014	Sistem medical inovativ pentru monitorizarea tensiunilor interne in tesutul tumoral in scopul imbunatatirii tratamentului oncologic	231.122,00	Buget de stat
41.	Parteneriat 78/2014	Tratarea apelor reziduale prin procedee de floculare-oxidare mediate de floculanți şi catalizatori derivați din nămol roşu	65.422,00	Buget de stat
42.	Parteneriat 290/2014	Instrument de spectroscopie in domeniul undelor milimetrice (THz) pentru identificarea substantelor periculoase	179.592,00	Buget de stat
43.	Parteneriat 244/2014	"Cercetarea Substitutiei Osoase cu materiale biocompozite fabricate prin tehnici specifice metalurgiei pulberilor"	43.983,00	Buget de stat
44.	Parteneriat 94/2014	Noua generatie de sisteme de autocuratare fotocatalitice pentru functionalizarea textilelor tehnice si acoperiri arhitecturale	100.305,00	Buget de stat
45.	Parteneriat 266/2014	Cercetari privind corelatiile dintre caracteristicile fizice ale suprafetelor active ale componentelor optice si pragul lor de distrugere in fascicul laser intens	282.268,00	Buget de stst
46.	Parteneriat 200/2014	"Sistem imagistic pentru diferentierea intre leziunile tumorale maligne si benigne bazat pe dualitatea dintre fluorescenta hiperspectrala si tomografia optica de difuzie"	196.386,00	Buget de stat
47.	Parteneriat 72/2014	"Sistem integrat de monitorizare si bioremedierea zonelor contaminate cu metale grele si radionuclizi"	119.621,00	Buget de stat
48.	Parteneriat 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"	242.542,00	Buget de stat
49.	Parteneriat 213/2014	Implanturi ortopedice obtinute din aliaje multifunctionale tip ,,gum”	67.660,00	Buget de stat
50.	Parteneriat 58/2012	Sistem Laser pentru Aprinderea Motoarelor de Automobile	493.518,00	Buget de stat
51.	Parteneriat 10/2013	Noi cristale de inalta performanta pentru dezvoltarea de surse laser de mare putere acordabile in domeniul vizibil bazate pe procese	241.233,00	Buget de stat

		optice nelineare		
52.	Parteneriat 159/2012	High efficiency electrospinning.	81.812,00	Buget de stat
53.	Parteneriat 141/2014	Utilizarea Plasmelor reci pulsate la presiune ATmosferica pentru distrugerea Microorganismelor de pe suprafata Oualor de consum, in vederea cresterii Sigurantei alimentare.	253.260,00	Buget de stat
54.	Parteneriat 301/2014	Sistem complex de scanare cu raze X multiparametric pentru detecţia materialelor periculoase din bagaje, cu aplicaţii in domeniul Securitaţii	87.521,00	Buget de stat
55.	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	176.083,00	Buget de stat
56.	Parteneriat 8/2012	Senzor systens for secure operation of critical insallations	386.844,00	Buget de stat
57.	Parteneriat 223/2012	Inquiry based education in science and tehnology	284.391,00	Buget de stat
58.	Parteneriat 26/2012	New chemical systems based on nanocrystalline frameworks and porous architectures for intermediate temperature solid oxide fuel cells	67.873,00	Buget de stat
59.	Parteneriat 195/2012	Metoda si sistem inovativ pentru detectarea urmelor de droguri prin spectroscopie de masa asistata plasma-laser	30.715,00	Buget de stat
60.	Parteneriat 143/2012	Caracterizarea prin tehnici IBA si alte tehnici avansate a H si a altor elemente usoare in filme subtiri de materiale utilizate in ind. nucleara	134.549,00	Buget de stat
61.	Parteneriat 160/2012	Nanocompozite complexe pe baza de Carbon si titan pentru aplicatii industriale	109.120,00	Buget de stat
62.	Parteneriat 140/2012	Developing new graphene-polymer composites biomaterials for scaffold febrication with applicability in bone repair by coupling multiscale molecular modelling and experiments	31.750,00	Buget de stat
63.	Parteneriat 220/2014	Acumulator redox cu capacitate de incarcare rapida, ca sursa principala de energie pentru autovehiculele electrice	86.000,00	Buget de stat
64.	Parteneriat 253/2014	Noi acoperiri nanostructurale multifunctionale pentru implanturi ortopedice	55.633,00	Buget de stat
65.	Parteneriat 80/2014	Modul ecologic independent energetic pentru ventilare si iluminare cu proprietati antibacteriene utilizat pentru acoperirea peretilor exteriori	341.572,00	Buget de stat
66.	contract STAR 60/2013	"Stiinta si tehnologia acoperirilor cu emisivitate ridicata pentru aplicatii in radiatoare spatiale"	72.000,00	Buget de stat

67.	contract STAR 65/2013	"Efectele radiatiei asupra oxizilor semiconductori si amorfi folositi pentru electronica pe substrat flexibil"	81.608,00	Buget de stat
68.	TE 14/2013	"Obtinerea de filme subtiri fara plumb de (Ba1_xCax)(Ti1-yzry)O3 cu proprietati piezoelectrice inalte pentru microelectronica"	25.210,00	Buget de stat
69.	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"	46.044,00	Buget de stat
70.	TE_24/2015	Biointerfete inteligente de tip osos obtinute prin metode laser pentru inducerea unui raspuns osteogenic imbunatatit al celulelor stem	209.630,00	Buget de stat
71.	TE_148/2015	Surface acoustic wave sensor for H2S detection based on sensitive layers with gradual porosity	187.026,00	Buget de stat
72.	TE_209/2015	Nanocompozite pe baza de staniu cu continut de FE, C si/sau Si sintetizate prin piroliza laser penrtu anozi performanti folositi in bateriile Li-ion	221.193,00	Buget de stat
73.	TE_140/2015	Acoperiri hibride pentru implanturi biodegradabile avansate din MG/aliaje din MG cu protective la coroziune si ecranare antimicrobiana	242.314,00	Buget de stat
74.	TE_188/2015	Eliberare de medicamente controlata prin activare externa din sisteme polimerice inteligente	202.771,00	Buget de stat
75.	TE_186/2015	Sinteza de biblioteci compozitionale de filme subtiri prin procedee laser combinatoriale pentru selectarea de agenti cu tinta	236.992,00	Buget de stat
76.	TE_187/2015	Asamblarea cu ajutorul laserului a unor dispozitive “lab-on-a-chip” miniaturizate pentru ghidare, capturare si analiza celulara	283.844,00	Buget de stat
77.	TE_108/2015	Straturi subtiri de Hidroxiapatita biologica cu aderenta foarte mare sintetizate prin tehnici de depunere laser pulsate pentru aplicatii medicale	258.862,00	Buget de stat
78.	TE_271/2015	Depunerea de filme subtiri hibride tip molecula oaspete fotofunctionala intercalate in matrice gazda de hihroxizi dublu stratificati	284.391,00	Buget de stat
79.	TE_270/2015	Sistem de detective a aditivului alimentar nociv: glutamat monosodic	236.992,00	Buget de stat
80.	TE_25/2015	Fabricarea de retele flexibile de micro-dispozitive electronice prin scriere directa cu laserul pentru masurarea presiunii in timp real	276.491,00	Buget de stat
81.	TE 208/2014	Materiale monocristaline si ceramic policristaline alternative pentru laseri in vizibil	276.491,00	Buget de stat
82.	TE 269/2015	Nano-structuri multistrat obtinute folosind o plasma anodica pentru reflectivitate de raze X	224.884,00	Buget de stat
83.	TE 112/2015	O metoda noua de sinteza a particulelor metalice la presiune atmosferica - o abordare cu plasma rece	233.042,00	Buget de stat
84.	Contract 19 RO-FR/2014	"Innovative BIOactive COATings for orthopaedic implants deposited BY new pulsed LASER methods (Biocoat_By_Laser)	451.038,00	Buget de stat

85.	Contract E 12 /2014	Studii preliminare pentru implementarea experimentelor bio-medicale ELI-NP - ELI-BIOMED	120.705,00	Buget de stat
86.	Contract F3/2014	Interactiuni atomice in campuri supercritice: investigatii teoretice si experimentale pentru FAIR/SPARC-SCAFI	93.438,00	Buget de stat
87.	mobilitati 782/2014	Sinteza si functionalizarea laser de material nanostructurate pe baza de carbon	9.477,73	Buget de stat
88.	mobilitati 778/2014	Nanocompozite biomimetice obtinute prin biotehnologii laser avansate pentru vindecarea rapida si regenerarea tesuturilor osoase	7.850,31	Buget de stat
89.	Ctr. 6BM/2016	Noi materiale optice performante pe baza de oxizi obtinute prin metode de depunere combinatoriale	24.477,38	Buget de stat
90.	Ctr. 1PN III/2016	Filme subtiri nanocristaline de TiO2, co-dopat cu metal-nemetal cu proprietati de catalizator in vizibil fabricate prin sol-gel si depunere laser pulsata	12.397,18	Buget de stat
91.	Ctr. Mobilitati 27/2016		8.469,73	Buget de stat
92.	Ctr. ELI_RO 20/2016	Development of a Novel 2D Detector Array for Dosimetric Characterisation of ELI Laser Accelerated Charged Particle Beams	55.990,00	
93.	Ctr. ELI _RO 4/2016	Quasi-classical methods in Laser- Nucleus Interactions	14.880,00	Buget de stat
94.	Ctr.ELI –RO 27/2016	Development of new experimental setups and materials for the positron convertor and moderator for ELINP positron beam line	3.575,00	Buget de stat
95.	Proiect PTE 29/2016	Tehnologii laser de testurare a lagarelor cu alunecare	17.500,00	Buget de stat
96.	Ctr. FAIR F 01/2016	Interactiuni atomice in campuri super critice: investigatii preliminare pentru contributii in-kind la SPARC/ SPARC-RO	90.315,00	Buget de stat
97.	2BM/2016	Dezvoltarea ceramicilor laser policristaline $Y_2O_3:Yb^{3+}$ pentru constructia de laseri microcip	12.678,39	Buget de stat
98.	IFA-CEA _03	Efectul radiatiei asupra Si C: Rolul raportului dintre dimensiunile grauntilor cristalini si ale coliziunilor in cascada	103.200,00	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	135.000,00	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 duratala interfata cu plasma de fuziune pentru proiectul WEST / PFCCOAT	135.000,00	Buget de stat
101.	Contr.IFA-CEA C5-4/16	Rotatia plasmei si mecanisme de convective a impuritatilor	80,500.00	

102.	Contract IFA-CEA C5-05/2016	Caract. si modelarea cablurilor supra conductoare. Examin. cabluri supra conductoare prin microtomografia de raze X si reconstructia traiectoriilor de fire. Aplic. unui model analytic de determinare insitu a pierderilor AC in geometrii reale si experim. Aprof. in analiza distrib. curentilor de ecranare	75,000.00	
103.	Contract IFA-CEA C5-10 /2016	Determinarea profilului He din componentele de la interfata cu plasma de fuziune	97,500.00	
104.	Contract IFA CEA C4-13/2014	Mobilizarea şi colectarea prafului cu laser şi plasmă / DUSTCO	135.000,00	Buget de stat
105.	Contract IFA-CEA C5-07/2016	Modificari induse cu plasma si laser asupra materialelor relevante pentru fuziune bazate pe tungsten /FUTURE	82.000,00	
106.	CTR.06/		6,452.00	
107.	Contract IFA 340/2014	Reteaua Centrelor de Stiinta	60,407.00	Buget de stat
108.	Contract 0319/2014	Procese ecologice de extractie a compusilor valorosi din plante	134,727.00	Buget de stat
109.	Star 100/2013	"Tehnologie pentru manipularea si indepartarea prafului pentru misiunile pe Marte"	39.680,00	Buget de stat
110.	Contract STAR 67/2013	Evaluation of Components for Space Applications	211.238,00	Buget de stat
111.	contract STAR 53/2013	Accelerarea Laser in Plasma in Particule in vederea efectuarii de Teste privind expunereea la Radiatii-LEOPARD	200.000,00	Buget de stat
112.	Contract E 03/2014	Extreme Light Induced Ablation Plasma Jet and Nanopatterning	74.929,00	Buget de stat
113.	Contract M-ERA NET 31/2016	Noi tipuri de acoperiri antibacteriene pe material textile si plastice cu eliberare controlata a agentului antibacterian - PLASMATEX	157.500,00	
114.	ELI_P 1/2015	Acces the CETAL 1 petawatt laser facility for laser and TDR related experiments	368.407,07	
115.	Contract ELI E06/2014	Accelerarea de electroni in plasma produsa de laseri de putere la GeV-LAPLACE	245.341,00	Buget de stat
116.	17- ELI/2016	Electromagnetic Shielding Structures to assure Biological Safety during target hitting experiments performed on PW Laser Facilities	74.956,00	Buget de stat
117.	25 – ELI/2016	Laser Targets for ultraintense laser experiments	54.572,00	Buget de stat
118.	24-ELI/2016	Temporally resolved diagnostics of laser produced plasma for electron acceleration forseen to be used at ELI-NP	60.663,00	Buget de stat
119.	Euratom	Euratom WPCD-C	136.875,00	Buget

				de stat
120.	Euratom	Euratom tema WPISA RO-Complementar	45.000,00	Buget de stat
121.	Euratom	Euratom WPPFC-C (BUGET)	8.704,00	Buget de stat
122.	Euratom	Euratom tema WPJET1 Principal (Buget)	95.703,00	Buget de stat
123.	Euratom	Euratom tema WPJET1 Complementar (Buget)	318.014,00	Buget de stat
124.	Euratom	Euratom tema WPJET2 Principal (Buget)	141.750,00	Buget de stat
125.	Euratom	Euratom tema WPJET2 Complementar	527.915,00	Buget de stat
126.	Euratom	Euratom tema WPJET4.1 Principal (Buget)	8.437,00	Buget de stat
127.	Euratom	Euratom tema WPJET4.1 Complementar (Buget)	407.153,00	Buget de stat
128.	Euratom	Euratom tema WPENR Complementar (Buget)	333.100,00	Buget de stat
129.	Euratom	Euratom tema WPMST1 Principal (Buget)	36.675,00	Buget de stat
130.	Euratom	Euratom tema WPMST1 Complementar (Buget)	112.746,00	Buget de stat
131.	Euratom	Euratom tema WPMAG Principal (Buget)	54.845,00	Buget de stat
132.	Euratom	Euratom tema WPMAG Complementar (Buget)	276.134,00	Buget de stat
133.	Euratom	Euratom tema WPMAT Complementar (Buget)	93.605,00	Buget de
134.	Euratom	Euratom tema WPPFC Principal (Buget)	70.875,00	
135.	Euratom	Euratom tema WPPFC Complementar (Buget)	22.000,00	
136.	Euratom	Euratom tema WPCD Principal (Buget)	90.000,00	
137.	Euratom	Euratom tema WPCD Complementar (buget)	63.000,00	
138.	Euratom	Euratom WPMAT PC	179.625,00	
139.	Euratom	Euratom PFC Complementar (buget)	326.756,00	
140.	Euratom	Euratom PFC Principal (Buget)	84.375,00	
141.	Euratom	Euratom JET 2 P (buget)	303.285,00	
142.	Euratom	Euratom JET 3P (buget)	84.375,00	
143.	Euratom	Euratom JET 2 Complementar (buget)	69.156,00	
144.	Euratom	Euratom PFC Complementar (buget)	289.225,00	
145.	Euratom	Euratom EDU 9 buget	152.639,00	
146.		LASERLAB III	97.403,34	
147.		Contract ESA	106.990,80	
148.		Contract Franta	37.321,10	
149.		Contract LASIG TWIN	234.630,70	
150.		Contract Germania Mac -Planck	55.792,54	

151.		Garching	15.203,99	
152.		Contract Dubna	8.061,92	
153.		CEYS	60.000,00	
154.		C-da Finlanda	42.327,25	
155.		Grant Sustain	27.194,78	
156.		Contract Cadarache	319.304,80	
157.		Contract Franta	15.514,40	
158.		Contract NATO G 4890/2016	133.807,01	
159.		Contract Dubna	4.031,46	
160.		EURATOM COFINANTARE	1.848.465,75	
161.	ALTE VENITURI ECONOMICE	ECONOMICE	63.355,03	
	TOTAL INFLPR		**54.727.352,64**	

ISS 2016 Contracte nationale			
Crt.	**Nr. Contract**	**Denumire proiect**	**Valoare 2016 (RON)**
1	CONTR 56/2013	Antrenamentul asistat de calculator cu feedback informațional pentru contramăsuri la zborul spațial cu echipaj uman	461.100,00
2	CONTR 59/2013	Centrul român de compentență în tehnologii pentru nanosateliți ROST-CC	623.000,00
3	CONTR 60/2013	Stiinta si tehnologia straturilor de acoperire cu emisivitate foarte mare pentru aplicatii in fabricarea radiatoarelor termice utilizate in spatiu extraterestru	30.000,00
4	CONTR 61/2013	Detectori cu diamant pentru experimente de spectrometrie de particule în spaţiu (DIADEMS)	100.000,00
5	CONTR 65/2013	Radiation effects on amorphous semiconductor oxides used for flexible and transparent microelectronics	66.500,00
6	CONTR 102/2013	Calibrarea in-flight si imbunatarirea calitatii datelor HIA/Cluster in vederea exploatarii stiintifice	340.000,00
7	CONTR. 112/2016	Romanian Space Center	370.000,00
8	CONTR. 109/2016	Romanian Cluster for Earth Observation	37.575,00
9	CONTR 200/2012 PARTENERIATE-	Monitorizarea precisa a stabilitatii infrastructurii folosind interferometria radar cu apertura multipla combinata cu tehnici de extragere de motive spatio-temporale (DGI-SAR)	104.000,00
10	CONTR.PARTENERIATE 196/2012 -ASR	Platforma modulara de tip nanosatelit pentru observari si masurari pe orbita terestra joasa-	160.000,00

		MOSON	
11	CONTR.PARTENERIATE-290/2014	Instrument de spectroscopie in domeniul undelor milimetrice (THz)pentru identificarea substantelor periculoase	189.335,00
12	CONTR.PARTENERIATE-279/2014	Sonda Kelvin cu Potential Armonic pentru Aplicatii Spatiale-KEPRO	115.975,00
13	CONTRACT 39 N	LAPLAS 4	7.350.000
14	02-1-1087-009/2017	poz 5 FIRU Study of electromagnetic and nuclear interactions of high-energy muons	4.031,13
15	02-1-1087-009/2017	POZ 6 FIRU Computer analysis of tracks in nuclear emulsions exposed to a-252Cf source''	4.031,13
16	02-1-1087-2009/2017	POZ 7 HAIDUC Nuclear diffraction dissociation of 16O,22Ne, 28 Si, 32S,56Fe at 1-3.7 A GeV in nuclear emulsion''	4.031,13
17	02-1-1087-2009/2017	POZ 8 HAIDUC Study of relativistic fragmentation of light radioactive nuclei in photoemulsion	4.031,13
18	02-1-1087-2009/2017	,,POZ 9 HAIDUC Study of relativistic fragmentation of He3 nuclei in nuclear photoemulsion''	4.031,13
19	02-1-1087-2009/2017	,POZ 10 HAIDUC Study of peripheral collisions of 6Fe at 1-3.7 A GeV in nuclear emulsion''	4.031,13
20	02-1-1107-2011/2016	,,POZ 12 MOGILDEA Development of data electronic acquisition system for nuclear radiation detectors''	4.031,13
21	02-1-1107-2011/2016	,,POZ 13 MOGILDEA Investigation of the neutron spectra through activation of Co probes in "Quinta" assembly under irradiation with light ions''	4.031,13
22	03-4-1104-2011/2016	,,POZ 107 NEAGU Astrophysical calculations for nucleosynthesis of the neutron-deficient isotopes known as p nuclei''	5.240,43
23	02-2-1125-2015/2017	,,POZ 16 POPESCU Study of atmospheric phenomena influences on the EAS fluorescent signals on KLYPVE/TUA space experiments'	4.031,13
24	02-2-1125-2015/2017	,,POZ 17 POPESCU Development of ground-based system for the in-orbi calibration of the TUS telescope detector abroad the Lomonosov satellite''	4.031,13
25	02-2-1125-2015/2017	POZ 18 POPESCU Studies regarding the calibration of the gamma telescopes in the TAIGA experiment''	6.046,66
26	03-4-1104-2011/2016	Poz 106,, Neutron detectors evaluation using Monte Carlo codes''	4.031,13
27	03-4-1104-2011/2016	POZ 108 ZGURA Nuclear reactions analysis of	4.031,13

		some Sm isotopes for astrophysics applications''	
28	02-1-1087-2009/2017	GRANT 2017 ,,Study of electromagnetic and nuclear interactions of high-energy muons''	28.192,62
29	05 FAIR 2016	Development of simulation and analysis software for high energy neutrons interactions in R3B experiment/DASHNE"	124.700,00
30	03 FAIR 2016	Interactiuni atomice in campuri super-critice: investigatii teoretice si experimentale pentru FAIR-SPARC	43.485,00
31	03 FAIR 2014	Interactiuni atomice in campuri super-critice: investigatii teoretice si experimentale pentru FAIR-SPARC	28.345,00
32	CONTR- IDEI 32 /2011	Particule exotice super massive in telescoape pentru neutrini	266.516,56
33	CONTR- IDEI 67/2011	Cuplaj Magnetosfera-Ionosfera in Regiunea Aurorala	131.157,20
34	CONTR- IDEI 69/2011	Studiul proceselor difractive in interactii produse in emulsia nucleara de ioni accelerate la 1-4 GeV si aplicatii in astrofizica	228.370,85
35	CONTR- IDEI 82/2013	Studiul undelor gravitationale primordial cu anisotropia CMB.	357.461,00
36	CONTR- IDEI 83 /2013	Turbulenta,intermitenta si transfer de energie in vantul solar si magnetosferele planetare.	397.913,00
37	CONTR- RU TE 8/2013	Excitarea,propagarea si disiparea undelor ULF in magnetosfera(ERODIUM)	91.500,00
38	CONTR- RU TE 9/2013	Proprietati termodinamice si functii de corelatie ale gazelor atomice reci in sisteme cu dimensionalitate redusa.	91.385,00
39	CONTR RU TE 356/2015	Studiu multi-scala al turbulentei in plasme astrofizice	345.000,00
40	CONTR- 2/2016 ISS ALICE/2016	Descrierea QGP folosind metode de culegere si jeturi/ISSALICE	1.028.417,00
41	CONTR- 6/2012	Contributia nationala la dezvoltarea gridului de calcul LCG pentru fizica particulelor elementare(CONDEGRID)	147.600,00
42	INSTALATII INTERES NATIONAL GRID	Instalatii grid de Interes National	189.764,00
43	CAPACITATI-36 MB	Dezvoltarea retelei de statii terestre comunicare cu sateliti ca platforma de coopeerare cu partenerii europeni in tehnologii spatiale	4.000,00
	TOTAL CONTRACTE NATIONALE Filiala ISS		**13.510.952,88**

ISS 2016 Contracte internationale			
Crt	**NUMAR CONTR**	**Denumire contract**	**Valoare 2016 (RON)**
1	CONTR-PECS 98050	Romanian GRID middleware repository for Space Science Applications - RoSpaceGRID	150.967,99
2	CONTR-FP 7	FP7 KM3Net	12.674,24
3	CONTR-PTW 4000101997/10/NL/HE 2010	Portable Telemedicine Workstation Fleasibility Study, Definition and Specification - PTW	144.082,82
4	GAVPRO	Discussion over the negotiation points for the GaVPro proposal	34.119,85
5	No. 4000118383/16/I-EF	Swarm Data Quality Investigation of Field-Aligned current products, ionosphere and Termosphere Systems	108.315,32
6	HARPON4000116950/16/NL/LF /as	Assessment of an Anchoring Device for Cubesat Landers	154.035,74
7	ROSISMON 4000118207/16/NL/CBi	Study for a monitoring station for EGNOS to support services in Eastern Europe	89.922,00
8	DEIMOS	Space Weather Service Development	94.972,50
9	PRODEX	SiPM UV Detector for the EUSO Mission/ SUVDET	597.628,72
10	CONTR-FP7 –SPACE-2012-313038	Solar system plasma Turbulence:Observations,intermittency and Multifractals.	22.255,10
11	CONTR-L3-OBIS	Leon based On-Board Instrument Software	224.919,21
12	4000115459/15/NL/MM/ GEWRIV	GNSS environment and user requirements characterization on Danube River	40.029,19
13	RARTEL	TTC Scheduler	21.959,20
14	EMSIS	Electric Motor Spin Into Space(EMSIS)	66.987,00
15	PRODEX	Romanian contribution to the Ground Segment of Euclid Mission	112.328,51
	TOTAL CONTRACTE INTERNAȚIONALE 1.875.197,39		

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

Nr. Crt.	Titlu	Revista, vol., pg., anul	Autori	Factor de impact
1.	Effects of gamma radiation on perfluorinated polymer optical fibers	Optical Materials 58 (2016): 226-233	S. Pavol, L. Mihai, D. Sporea, D. Neguţ, H. Sturm, M. Schukar, K. Krebber	2,1830
2.	Low-Loss Coupling of Quantum Cascade Lasers into Hollow-Core Waveguides with Single-Mode Output in the 3.7–7.6 µm Spectral Range	Sensors 16, no. 4 (2016): 533	Patimisco, Pietro, Angelo Sampaolo, L. Mihai, M. Giglio, J. Kriesel, D. Sporea, G. Scamarcio, Frank K. Tittel, V. Spagnolo	2,0330
3.	γ irradiation induced effects on bismuth active centres and related photoluminescence properties of Bi/Er co-doped optical fibres	Scientific Reports, 6, 29827. (2016)	Sporea, D., Mihai, L., Neguţ, D., Luo, Y., Yan, B., Ding, M., … Peng, G.-D.	5,2280
4.	Laser-assisted fabrication and non-invasive imaging of 3D cell-seeding constructs for bone tissue engineering	JOURNAL OF MATERIALS SCIENCE Volume: 51 Issue: 9 Pages: 4262-4273 Published: MAY 2016	Mihailescu, M; Paun, IA; Zamfirescu, M; Luculescu, CR; Acasandrei, AM; Dinescu, M;	2,3020
5.	Nitride coating enhances endothelialization on biomedical NiTi shape memory alloy	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS Volume: 62 Pages: 686-691 Published: MAY 1 2016	Ion, R; Luculescu, C; Cimpean, A; Marx, P; Gordin, DM; Gloriant, T;	3,4200
6.	Electrically responsive microreservoires for controllable delivery of dexamethasone in bone tissue engineering	Applied Surface Science, 392 321–331 (2017).	I.A. Paun, M. Zamfirescu, C.R. Luculescu, A.M. Acasandrei, C.C. Mustaciosu, M. Mihailescu, M. Dinescu	3,1500
7.	Multi-Wavelength Laser Irradiation of Be-C-W Coatings	Digest Journal of Nanomaterials and Biostructure 11 (2016), p. 293 – 302	L. Avotina, A. Marcu*, C. Porosnicu, M. Lungu, A. Stancalie, A.G. Ilie, P. C.Ganea, D.Savastru, J. Kalnacs, C.P. Lungu, G. Kizane, S. Antohe	0,7600
8.	POWER DENSITY INFLUENCE ON LASER-INDUCED GRAPHITE	DIGEST JOURNAL OF NANOMATERIALS	Avotina, L., Marcu*, A., Lungu, M., Stancalie, A.,	0,7560

	STRUCTURAL MODIFICATIONS	AND BIOSTRUCTURES, 11(3), pp.973-981. (2016)	Grigorescu, C., Ilie, A.G., Porosnicu, C., Mihai, L., Sporea, D., Lungu, C. and Somacescu, S.	
9.	Active Surface Geometrical Control of Noise in Nanowire-SAW Sensors	Sensors & Actuators: B. Chemical 231 (2016), pp. 469-473	A. Marcu, I. Nicolae and C. Viespe	4,7600
10.	Particular aspects related to the even-odd effects in prompt emission in fission	The European Physical Journal A (2016) 52:182	A. Tudora, F.J. Hambsch, G. Giubega	2,3730
11.	Experimental demonstration of a collinear triple pulse grazing-incidence pumping scheme for a transient collisional pumped x-ray laser	J. Phys. B: At. Mol. Opt. Phys. 49 (2016) 215601 (6pp)	Kunzel, S; Cojocaru, G V ; Gartner, F ; Aurand, B; Li, L ; Ursescu, D ; Zeitoun, P ; Oliva, E ; Zielbauer, B ; Kuehl, T; Fajardo, M	1,8330
12.	DROUGHT VEGETATION MONITORING USING IN SITU AND SATELLITE DATA, IN THE CARACAL PLAIN OF ROMANIA	ROMANIAN REPORTS IN PHYSICS 68- 2 (2016) , pp. 799-812	MIHAI, LAURA, A. STANCALIE, ADELINA SPOREA, D. SPOREA, ARGENTINA NERTAN, and D. MIHAILESCU	1,3670
13.	Hydroxyapatite thin films grown by pulsed laser deposition and matrix assisted pulsed laser evaporation: Comparative study	Applied Surface Science, In press	G. Popescu-Pelin, F. Sima, L.E. Sima, C.N. Mihailescu, C. Luculescu, I. Iordache, M. Socol, G. Socol, I.N. Mihailescu	3,1500
14.	Direct synthesis of graphitic mesoporous carbon from green phenolic resins exposed to subsequent UV and IR laser irradiations	Scientific Reports, 6, 39617 (2016)	M. Sopronyi, F. Sima, C. Vaulot, L. Delmotte, A. Bahouka, C. Matei Ghimbeu	5,2300
15.	Substrate surface patterning by optical near field modulation around colloidal particles immersed in a liquid	OPTICS EXPRESS, vol. 24, 27340 (2016)	Ulmeanu M; Petkov P; Ursescu D; Jipa F; Harniman R; Brousseau R; M. N. R. Ashfold	3,1480
16.	Comparative Study of Long-Period Gratings Written in Standard and Fluorine-Doped Fibers by Electric Arc Discharge	IEEE SENSORS JOURNAL, vol 16, pp. 4265-4273 (2016)	Ranjan R, Esposito F, Iadicicco A, Stancalie A, Sporea D, Campopiano S	1,8800
17.	A general approach for real-time rail condition monitoring using optical fiber sensors	U.P.B. Sci. Bull., Series A, Vol. 78, Iss. 4, 2016 (2016)	G Ilie, A Stancalie	0,4000
18.	EXPERIMENTAL CHARACTERIZATION OF THE OPTICAL FIBER SENSORS	Scientific Bulletin Series A , Applied Mathematics and Physics, Volume: 78 Issue: 1, Pages: 299-308 (2016)	Stancalie A, Ilie G	0,4000

19.	The impedance signature method for impedance-based structural health monitoring	SCIENTIFIC BULLETIN Series A – Applied Mathematics and Physics, Volume: 78 Issue: 2, Pages: 245-254 (2016)	Stancalie A	0,4000
20.	Radiological Safety Assessment For The Experimental Area Of A Hyper-Intense Laser With Peak—Power Of 1pw—Cetal	Radiation Protection Dosimetry (2016) acceptat spre publicare (2016)	M. Florescu, G., O. G. Duliu, D. Pantazi, C. M. Ticos, D. Sporea, R. Vasilache, V. Ionescu, M. Oane	0,7000
21.	Optical and THz investigations of mid-IR materials exposed to alpha particle irradiation	Scientific Reports 7 (40209) (2017)	D Sporea, L Mihai, A Sporea, I Vâţã	5,2280
22.	Chlorpromazine transformation by exposure to ultraviolet laser beams in droplet and bulk	European Journal of Pharmaceutical Sciences, 81: 27-35 (2016)	Andrei, IR; Tozar, T; Dinache, A; Boni, M; Nastasa, V; Pascu, ML	3.773
23.	Laser beam resonant interaction of new hydantoin derivatives droplets for possible biomedical applications	Colloids and Surfaces A: Physicochemical and Engineering Aspects; 505: 37–46 (2016)	Smarandache, A; Nastasa, V; Boni, M; Staicu, A; Handzlik, J; Kiec-Kononowicz, K; Amaral, L; Pascu, ML	2.76
24.	Study of the optical properties of 2-thiohydantoin derivatives	Romanian Reports in Physics; 68(2): 673–683 (2016)	Smarandache, A; Pascu, A; Andrei, IR; Handzlik, J; Kiec-Kononowicz, K; Staicu, A; Pascu, A	1.367
25.	Insights into the photophysics of zinc phthalocyanine and photogenerated singlet oxygen in DMSO-water mixture	Colloids and Surfaces A-Physicochemical and Engineering Aspects; 505: 197-203 (2016)	Nastasa, V; Pascu, A; Boni, M; Smarandache, A; Staicu, A; Pascu, ML	2.76
26.	Minimal invasive control of paintings cleaning by LIBS	Optics & Laser Technology, Volume 77, Pages 187–192 (2016)	A. Staicu, I. Apostol, A. Pascu, I. Urzica, M.L. Pascu, V. Damian	1.879
27.	R-Matrix calculation of singly ionized carbon structure for x-ray laser modelling	Romanian Journal of Physics 61, 435-444 (2016)	Iorga, C; Pais, V; Stancalie, V;	1.398
28.	A study of the laser-produced aluminum plasma by means of computer simulation	Romanian Reports in Physics 68 (1) 294-304	Iorga, C; Stancalie, V; Pais, V;	1.367
29.	Energy levels and radiative rates for transitions in Cr-like Co IV and Ni V"	Atomic Data and Nuclear Data Tables 107, 140-220 (2016)	Aggarwal, KM; Bogdanovich, P; Karpuskiene, R; Keenan, FP; Kisielius, R; Stancalie, V;	2.576
30.	A new approach to theoretical investigations of high	JINST, vol. 11, C12004 (2016)	A. Mihailescu	1.41

	harmonics generation by means of fs laser interaction with overdense plasma layers. Combining particle-in-cell simulations with machine learning.			
31.	Ammonia and ethylene measurements in pure nitrogen	Romanian Journal of Physics, vol. 61, no. 9-10, (2016)	M. Petrus	1.398
32.	The response of human body at oxidative stress in subjects with type 2 diabetes: ammonia breath analysis by laser photoacoustic spectroscopy	Rev. Roum. Chim., 61(2): 83-87, 2016	M. Petrus, A.M. Bratu, C. Popa	0.250
33.	Breath ammonia detection in patients with schizophrenia using laser photoacoustic spectroscopy	Romanian Reports in Physics, 68(3):1140-1148 (2016)	M. Petrus, A. Bratu	1.367
34.	Breathing disorders using photoacoustics gas analyzer	Journal of Medical Imaging and Health Informatics, 6(8):1893-1895 (2016).	C. Popa	0.877
35.	CO2 laser photoacoustic measurements of ethanol absorption coefficients within infrared region of 9.2-10.8 µm	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 63: 115-119 (2016).	I.R. Ivascu, C.E. Matei, M. Patachia, A.M. Bratu, D.C. Dumitras	2.653
36.	Temperature control of crystalline status and phenomenological modes	Romanian Reports in Physics 68(1) (2016), 241–248	T. Rosca, S. Bazgan, G. Dorcioman, C. Ristoscu, G. Popescu-Pelin, N. Enaki, I. N. Mihailescu	1.367
37.	Functionalized antimicrobial composite thin films printing for stainless steel implant coatings	Molecules 21 (2016) 740	L. Floroian, C. Ristoscu, N. Mihailescu, I. Negut, M. Badea, D. Ursutiu, M. C. Chifiriuc, I. Urzica, H. Mohammed Dyia, C. Bleotu, I. N. Mihailescu	2.465
38.	Combinatorial MAPLE deposition of antimicrobial orthopedic maps fabricated from chitosan and biomimetic apatite powders	International Journal of Pharmaceutics 511 (2016) 505–515	A. Visan, G.E. Stan, C. Ristoscu, G. Popescu-Pelin, M. Sopronyi, C. Besleaga, C. Luculescu, M.C. Chifiriuc, M.D. Hussien, O. Marsan, E. Kergourlay, D. Grossin, F. Brouillet, I.N. Mihailescu	3.994
39.	'CdS quantum dots sensitized TiO2 nanotubes by matrix assisted pulsed laser	Ceramics International, 42(7), 9011-9017 (2016)	A. Bjelajac, R. Petrovic, G. Socol, I. N. Mihailescu, M.	2.758

	evaporation method”		Enculescu, V. Grumezescu, V. Pavlovic, D. Janackovic,	
40.	“Fabrication of antimicrobial silver-doped carbon structures by combinatorial pulsed laser deposition”	International Journal of Pharmaceutics, Volume 515, Issues 1–2, 2016, 592-606.	I. N. Mihailescu, D. Bociaga, G. Socol, G. E. Stan, M. Chifiriuc, C. Bleotu, M. A. Husanu, G. Popescu-Pelin, L. Duta, C. R. Luculescu, I. Negut, C. Hapenciuc, C. Besleaga, I. Zgura, F. Miculescu	3.994
41.	‘Structural, compositional, mechanical characterization and biological assessment of bovine-derived hydroxyapatite coatings reinforced with MgF2 or MgO for implants functionalization’	Materials Science and Engineering: C, 59, 2016, 863–874 (2016)	N. Mihailescu, G.E. Stan, L. Duta, M. C. Chifiriuc, C. Bleotu, M. Sopronyi, C. Luculescu, F.N. Oktar, I.N. Mihailescu,	3.420
42.	'Thickness influence on in vitro biocompatibility of Titanium Nitride thin films synthesized by Pulsed Laser Deposition”,	Materials 9, 38, 1-19, 2016.	L. Duta, G. E. Stan, A. C. Popa, M. A. Husanu, S. Moga, M. Socol, I. Zgura, F. Miculescu, I. Urzica, A. C. Popescu, Ion N. Mihailescu,	2.728
43.	"Multi-stage pulsed laser deposition of Aluminum Nitride at different temperatures"	Applied Surface Science, 374, 143-150, 2016	L. Duta, G. E Stan, H. Stroescu, M. Gartner, M. Anastasescu, Z. Fogarassy, N. Mihailescu, A. Szekeres, S. Bakalova, I. N. Mihailescu,	3.150
44.	Laser synthesis of 2D heterostructures of transitional metal oxides for photo sensors with high sensitivity	JOURNAL OF LASER APPLICATIONS Volume: 28 Issue: 4 Article Number: UNSP 042006 Published: NOV 2016	Mulenko, SA; Stefan, N; Miroiu, F; Mihailescu, IN; Gorbachuk, NT; Nikirin, VA	1.078
45.	Antimicrobial activity of biopolymeric thin films containing flavonoid natural compounds and silver nanoparticles fabricated by MAPLE: A comparative study	APPLIED SURFACE SCIENCE Volume: 374 Pages: 290-296 Published: JUN 30 20 (2016)	Cristescu, R; Visan, A; Socol, G; Surdu, AV; Oprea, AE; Grumezescu, AM; Chifiriuc, MC; Boehm, RD; Yamaleyeva, D; Taylor, M; Narayan, RJ; Chrisey, DB	3.150
46.	Titanium oxide - reduced graphene oxide - silver composite layers synthesized by laser technique: Wetting	CERAMICS INTERNATIONAL Volume: 42 Issue: 14 Pages: 16191-	Gyorgy, E; del Pino, AP; Datcu, A; Duta, L; Logofatu, C; Iordache, I; Duta, A	2.758

	and electrical properties	16197 Published: NOV 1 2016		
47.	Fabrication of periodical surface structures by picosecond laser irradiation of carbon thin films: transformation of amorphous carbon in nanographite	APPLIED SURFACE SCIENCE Volume: 390 Pages: 236-243 Published: DEC 30 2016	Popescu, C; Dorcioman, G; Bita, B; Besleaga, C; Zgura, I; Himcinschi, C; Popescu, AC	3.150
48.	Gamma irradiation effects on the properties of indium zinc oxide thin films	THIN SOLID FILMS Volume: 614 Pages: 2-6 Part: A SEP 1 2016	Craciun, D; Socol, G; Le Caer, S; Trinca, LM; Galca, AC; Pantelica, D; Ionescu, P; Craciun, V	1.761
49.	Structural and mechanical properties changes induced in nanocrystalline ZrC thin films by Ar ion irradiation	JOURNAL OF NUCLEAR MATERIALS Volume: 468 Pages: 78-83 JAN 2016	Craciun, D; Socol, G; Simeone, D; Behdad, S; Boesl, B; Vasile, BS; Craciun, V	2.199
50.	Mesoporous silica coatings for cephalosporin active release at the bone-implant interface	APPLIED SURFACE SCIENCE Volume: 374 Pages: 165-171 Published: JUN 30 2016	Radulescu, D; Voicu, G; Oprea, AE; Andronescu, E; Grumezescu, V; Holban, AM; Vasile, BS; Surdu, AV; Grumezescu, AM; Socol, G; Mogoanta, L; Mogosanu, GD; Balaure, PC; Radulescu,; Chifiriuc, MC	3.150
51.	Thin coatings based on ZnO@C-18-usnic acid nanoparticles prepared by MAPLE inhibit the development of Salmonella enterica early biofilm growth	APPLIED SURFACE SCIENCE Volume: 374 Pages: 318-325 Published: JUN 30 2016	Stan, MS; Constanda, S; Grumezescu, V; Andronescu, E; Ene, AM; Holban, AM; Vasile, BS; Mogoanta, L; Balseanu, TA; Mogosanu, GD; Socol, G; Grumezescu, AM; Dinischiotu, A; Lazar, V; Chifiriuc, MC	3.150
52.	Biocompatible cephalosporin-hydroxyapatite-poly(lactic-co-glycolic acid)-coatings fabricated by MAPLE technique for the prevention of bone implant associated infections	APPLIED SURFACE SCIENCE Volume: 374 Pages: 387-396 Published: JUN 30 2016	Radulescu, D; Grumezescu, V; Andronescu, E; Holban, AM; Grumezescu, AM; Socol, G; Oprea, AE; Radulescu, M; Surdu, A; Trusca, R; Radulescu, R; Chifiriuc, MC; Stan, MS; Constanda, S; Dinischiotu, A	3.150
53.	Bioactive ZnO Coatings Deposited by MAPLE - An Appropriate Strategy to Produce Efficient Anti-Biofilm Surfaces	MOLECULES Volume: 21 Issue: 2 Article Number: 220 Published: FEB 2016	Oprea, AE; Pandel, LM; Dumitrescu, AM; Andronescu, E; Grumezescu, V; Chifiriuc, MC;	2.465

			Mogoanta, L; Balseanu, TA; Mogosanu, GD; Socol, G; Grumezescu, AM; Iordache, F; Maniu, H; Chirea, M; Holban, AM	
54.	"MAPLE preparation and characterization of mixed arylenevinylene based oligomers:C60 layers."	APPLIED SURFACE SCIENCE 374 278-289 (2016).	Stanculescu, A., Socol, G., Vacareanu, L., Socol, M., Rasoga, O., Breazu, C., Girtan, M., Stanculescu, F.	3.150
55.	"Amorphous thin films in the gallium–chalcogen system."	PHYSICA STATUS SOLIDI (B) BASIC RESEARCH 253(6) 1033-1037 (2016).	Popescu, M., Sava, F., Lőrinczi, A., Velea, A., Simandan, I.D., Galca, A.C., Matei, E., Socol, G., Gherendi, F., Savastru, D., Miclos, S.	1.522
56.	Direct laser deposition of nanostructured tungsten oxide for sensing applications	Journal of Physics D: Applied Physics, Vol. 49, Nr. 20, 205101 (2016)	A. Palla-Papavlu, M. Filipescu, C.W. Schneider, S. Antohe, P.M. Ossi, G. Radnóczi, M. Dinescu, A. Wokaun, T. Lippert	2.4
57.	Pyramidal growth of ceria nanostructures by pulsed laser deposition	Applied Surface Science, 363, pp. 245-251 (2016)	E.S. Bârca, M. Filipescu, C. Luculescu, R. Birjega, V. Ion, M. Dumitru, L.C. Nistor, G. Stanciu, M. Abrudeanu, C. Munteanu, M. Dinescu	3.38
58.	Optical and Structural Characterization of YSZ Thin Films Deposited by Excimer Laser Ablation for Planar Potentiometric Oxygen Sensors Applications	Romanian Reports in Physics, Vol. 68, No. 3, P. 1189–1196, 2016	R. Pascu, G. Epurescu, A. Moldovan, R. Birjega, C. Luculescu, D. Colceag, M. Dinescu	0.92
59.	Non-collinear spectral coherent combination of ultrashort laser pulses	Optics Express, Vol. 24, No. 7, 7046-7054 (2016)	IONEL L., URSESCU D.	3.148
60.	Metamaterial made of V-type systems from LiH molecules	Applied Physics A 122, 799 (2016)	BUDRIGĂ O.	1.444
61.	Characteristics of LaB6 thin films grown by pulsed laser deposition,	J. Vac. Sci. Technol. A 34 (2016) 051509	V Craciun, D Cristea, G Socol, E Lambers, R Trusca, S Fairchild, T Back, G Gruen, D Craciun,	1.724
62.	Investigations of Ar ion irradiation effects on nanocrystalline SiC thin films	APPLIED SURFACE SCIENCE Volume: 374 Pages: 339-345 (2016)	Craciun, V.; Craciun, D.; Socol, G, Behdad, S; Boesl, B ; Himcinschi, C ; Makino, H, ; Socol, M; Simeone, D	3.15

63.	Fabrication, Characterization, and Evaluation of Bionanocomposites Based on Natural Polymers and Antibiotics for Wound Healing Applications	MOLECULES, Volume: 21, Issue: 6, Article Number: 761, DOI: 10.3390/molecules21060761 (2016)	Radulescu, M.; Holban, A.M.; Mogoanta, L.; Balseanu, T.A.; Mogosanu, G.D.; Savu, D.; Popescu, R.C.; Fufa, O.; Grumezescu, A.M.; Bezirtzoglou, E.; Lazar, V.; Chifiriuc, M.C.	2.4650
64.	Silver Nanocoatings for Reducing the Exogenous Microbial Colonization of Wound Dressings	MATERIALS, Volume: 9, Issue: 5, Article Number: 345, DOI: 10.3390/ma9050345 (2016)	Radulescu, M.; Andronescu, E.; Dolete, G.; Popescu, R.C.; Fufa, O.; Chifiriuc, M.C.; Mogoanta, L.; Balseanu, T.A.; Mogosanu, G.D.; Grumezescu, A.M.; Holban, A.M.	2.7280
65.	”Synthesis and characterization of polyaniline-Fe@C magnetic nanocomposite powder”	Appl. Surf. Sci., 374 213–221(2016)	C. T. Fleaca, F. Dumitrache, I. Morjan, A.-M. Niculescu, I. Sandu, A.G. Ilie, I. Stamatin, A.-M. Iordache, E. Vasile, G. Prodan	3.15
66.	”The influence of 1,3-diaminopropane in functional groups generation on iron oxide nanoparticles surfaces synthesized by laser pyrolysis”	Optoel. Adv. Mater. Rapid Commun. 10 , 16-20 (2016)	A. D. Badoi, F. Dumitrache, C.T. Fleaca, N. Mihailescu, E. Vasile, C. Luculescu, L. Gavrila, I. Morjan, I. Ciuca	0.412
67.	“AC magnetic response of superconducting YBa2Cu3O7/PrBa2Cu3O7 superlattices”	AIP Advances 6, 065027 Doi: 10.1063/1.4955290 (2016)	L. Miu, I. Ivan, A.M. Ionescu, D. Miu	1.444
68.	“Vortex activation energy in the AC magnetic response ofr superconducting YBa2Cu3O7 thin films with complex pinning structures”	Superconducting Sci. Technol. 29 095013 (7 pag.), Doi: 10.1088/0953-2048/29/9/095013 (2016)	I.Ivan, A.M. Ionescu, D. Miu, P. Mele, L. Miu	2.717
69.	Vitroceramic interface deposited on titanium substrate by pulsed laser deposition method	International Journal of Pharmaceutics 510, p. 449 – 456 (2016)	G. Voicu, D. Miu, I. Dogaru, S Jinga, C. Busuioc	3.994
70.	In vitro evaluation of poly(ethylene glycol)-block-poly(epsilon-caprolactone) methyl ether copolymer coating effects on cells adhesion and proliferation	Applied Surface Science 374 23-30 (2016)	Rusen L., Neacsu P., Cimpean A., Valentin I., Brajnicov S., Dumitrescu L. N., Banita J., Dinca V., Dinescu M.	3.15
71.	Toxicity study in blood and	Colloids and Surfaces	MC. Morán, T. Tozar, A.	3.902

	tumor cells of laser produced medicines for application in fabrics	B: Biointerfaces, 137: 91-103 (2016).	Simon, A. Dinache, A. Smarandache, I.R. Andrei, M. Boni, M.L. Pascu, F. Cirisano, M. Ferrari	
72.	Light cleavage of some potential linkers for drug carriers	Romanian Reports in Physics, 68(2):684-692 (2016)	T. Alexandru, A. Staicu, A. Pascu, A. Dinache, A. ben Abdeladhim, M. Enescu, A. Khatyr, M. L. Pascu	1.367
73.	Evaluation of lab scale nano-hydroxyapatites for lead ions removal from aqueous solutions	Romanian Journal of Materials, 46 (3) (2016) 289-295	Christu Tardei, C.M. Simonescu, Cristian Onose, B.A Sava, L. Boroica, B.G. Sbârcea	0.612
74.	Growth and characterization of ternary Ni, Mg-Al and Ni-Al layered double hydroxides thin films deposited by pulsed laser deposition	Thin Solid Films 614 A, 36-41 (2016)	R. Birjega, A. Vlad , A. Matei, V. Ion, C. Luculescu, M. Dinescu, R. Zavoianu	1.83
75.	Amperometric biosensor based on Laccase immobilized onto a screen-printed electrode by Matrix Assisted Pulsed Laser Evaporation	Talanta 154, 438–445 (2016)	Maria Verrastro, Nunzia Cicco, Fabiana Crispo, Antonio Morone, Maria Dinescu, Marius Dumitru, Fabio Favati, Diego Centonze	2.77
76.	Nonlinear optical studies on 4-(ferrocenylmethylimino)-2-hydroxy-benzoic acid thin films deposited by matrix-assisted pulsed laser evaporation (MAPLE)	Applied Surface Science 374, 206–212 (2016)	Andreea Matei, Maria Marinescu, Catalin Constantinescu, Valentin Ion, Bogdana Mitu, Iulian Ionita, Maria Dinescu, Ana Emandi	3.38
77.	High atomic diffusivity during pulsed laser irradiation of TiON quasi-amorphous films	Applied Surface Science 374, 248–251 (2016)	V.S. Teodorescu, A.V. Maraloiu, R.F. Negrea, D. Ghica, N.D. Scarisoreanu, M. Dinescu, M. Gartner, M.-G. Blanchin	3.38
78.	Laser-induced forward transfer of hybrid carbon nanostructures	Applied Surface Science 374, 312–317 (2016)	A. Palla-Papavlu, M. Filipescu, S. Vizireanu, L. Vogt, S. Antohe, M. Dinescu, A. Wokaun, T. Lippert	3.38
79.	Organo-layered double hydroxides composite thin films deposited by laser techniques	Applied Surface Science 374, 326–330 (2016)	R. Birjega, A. Vlad, A. Matei, M. Dumitru, F. Stokker-Cheregi, M. Dinescu, R. Zavoianu, V. Raditoiu, M.C. Corobea	3.38
80.	Joining Chemical Pressure and Epitaxial Strain to Yield Y-doped	Scientific Reports 6, Article number:	N. D. Scarisoreanu, F. Craciun, R. Birjega, V.	5.47

	BiFeO3 Thin Films with High Dielectric Response	25535 (2016)	Ion, V. S. Teodorescu, C. Ghica, R. Negrea, M. Dinescu	
81.	Laser-assisted fabrication and non-invasive imaging of 3D cell-seeding constructs for bone tissue engineering	Journal of Materials Science 51, Issue 9, 4262–4273 (2016)	M. Mihailescu, I.A. Paun, M. Zamfirescu, C. R. Luculescu, A. M. Acasandrei, M. Dinescu	2.54
82.	Laser beam delivery at ELI-NP	Romanian Reports in Physics 68, Supplement, P. S11–S36 (2016)	D. Ursescu, G. Cheriaux, P. Audebert, M. Kalashnikov,, T. Tonician, M.Cerchez, M. Kaluza, G. Paulus, G. Priebe, R.Dabu, M.O. Cernaianu, M.Dinescu, T. Asavei, I. Dancus, L. Neagu, A. Boianu, C. Hooker, C. Barty, C. Haefner	0.92
83.	Structure and dielectric properties of ca doped sr0.5ba0.5nb2o6 ceramic compositions	Revista Romana de Materiale-Romanian Journal of Materials 46, Issue: 1, 70-74 (2016)	Stanciu, G; Scarisoreanu, ND; Ion, V; Dumitru, M; Andronescu, E; Dinescu, M	0.33
84.	Influence of CeO2 Thickness Layer Deposited on the 945A Steel Substrate Concerning the Corrosion Process	Revista de Chimie 67(1), 177-181 (2016)	Barca, E.S., Trinca, L.C., Filipescu, M., Dinescu, M., Plaiasu, A.G., Abrudeanu, M. and Leata, R	0.46
85.	Discriminating within the kinetic models for heterogeneous processes of materials by employing a combined procedure under TKS-SP 2.0 software	Journal of Thermal Analysis and Calorimetry 126, Issue: 2, 919-932 (2016)	Rotaru A.	1.781
86.	Microstructural and high-temperature impedance spectroscopy study of Ba6MNb9O30 (M = Ga, Sc, In) relaxor dielectric ceramics with tetragonal tungsten bronze structure	Ceramics International 42, Issue 10, 11810–11821 (2016)	Andrei Rotaru, Finlay D. Morrison	2.758
87.	Elastic and anelastic relaxations accompanying relaxor ferroelectric behaviour of Ba6GaNb9O30 tetragonal tungsten bronze from resonant ultrasound spectroscopy	Journal of Thermal Analysis and Calorimetry 124(2), 571-583 (2016)	Rotaru, A., Schiemer, J.A., Carpenter, M.A.	1.781
88.	Nanostructured germanium deposited on heated substrates with enhanced photoelectric	Beilstein J. Nanotechnol 7 (2016) 1492–1500	I. Stavarache, V. A. Maraloiu, P. Prepelita, G. Iordache,	2.7780

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89.	Densification contribution as a function of strain rate under indentation of terbium-doped aluminophosphate glass/	Journal of Materials Science, 51(3) 1409-1417 (2016)	Shikimaka, O.; Grabco, D.; Sava B.A.; Elisa, M.; Boroica, L.; Harea, E.; Pyrtsac, C.; Prisacaru, A.; Barbos, Z.	2.3710
90.	Relationship between magnetism and magneto-optical effects in Rare Earth doped aluminophosphate glasses	Journal of Physics D: Applied Physics, 49 075001 (2016)	Valeanu, Mihaela; Sofronie, Mihaela; Galca, Aurelian Catalin; Tolea, Felicia; Elisa, Mihai; Sava, Bogdan; Boroica, Lucica; Kuncser, Victor	2.7210
91.	Sol-gel preparation and structural investigations of silico-phosphate glasses doped with Fe ions/	Journal of Sol-Gel Science and Technology, DOI 10.1007/s10971-016-4192-z, 2016	B. A. Sava, M. Elisa, L. Boroica, V. Kuncser, M. Valeanu, I. C. Vasiliu, I. Feraru, R. Iordanescu	1.4730
92.	Single pixel sensing for THz laser beam profilerbased on Hadamard Transform	Optics & Laser Technology 79 (2016) 173–178	T. Vasile, V. Damian, D. Coltuc, M. Petrovici	1.647
93.	The Fourier Approach of the Two Temperature Model for Laser Beam-Metal Interaction: Experiment Versus Theory	Lasers in Engineering Journal Volume 33, Number 1-3, 181-187(2016)	V. Damian, M. Oane And A. Bucă	0.159
94.	Experimental study of thermo-physical properties based on γ-Fe2O3 nanoparticles for heat transfer applications	Heat Transfer Eng. 34 S199-S204 (2016)	Huminic G, Huninic A, Fleaca C, Dumitrache F	1.02
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96.	Protein reactivity with singlet oxygen: Influence of the solvent exposure of the reactive amino acid residues	Journal of Photochemistry and Photobiology B-Biology 159, 106-110 (2016).	Sjoberg, B; Foley, S; Staicu, A; Pascu, A; Pascu, M; Enescu, M;	3.035
97.	Investigation and in situ removal of spatter generated during laser ablation of aluminium composites	Applied Surface Science, 378, 102-113 (2016)	Popescu A. C., Delval C., Shadman S., Leparoux M.	3.15
98.	Insights on the synthesis mechanism of green phenolic resin derived porous carbons via a salt-soft templating	Carbon, 109 (2016) 227-238.	Nita C., Bensafia M., Vaulot C., Delmotte L., Matei Ghimbeu C.	6.198

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99.	Direct synthesis of graphitic mesoporous carbon from green phenolic resins exposed to subsequent UV and IR laser irradiations	SCIENTIFIC REPORTS, Vol.6 Art. Nr. 39617	Sopronyi, M ; Sima, F ; Vaulot, C ; Delmotte, L ; Bahouka, A] ; Ghimbeu, CM	5.228
100.	Direct multipulse laser processing of titanium oxide-graphene oxide nanocomposite thin films	CERAMICS INTERNATIONAL 42 (6) 7278-7283 (2016).	A. P. del Pino, A. Datcu, E. Gyorgy	2.7580
101.	Laser-induced chemical transformation of free-standing graphene oxide membranes in liquid and gas ammonia environments	RSC ADVANCES 6 (55) 50034-50042 (2016).	A. P. del Pino, E. Gyorgy, C. Cotet, L. Baia, C. Logofatu	3.2890
102.	Solar-active photocatalytic tandems. A compromise in the photocatalytic processes design	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING 42, 94-97 (2016).	A. Duta, A. Enesca, C. Bogatu, E. Gyorgy	2.2640
103.	Thermokinetic study of CODA azoic liquid crystal and thin films deposition by matrix-assisted pulsed laser evaporation	Journal of Thermal Analysis and Calorimetry, Pages 1-17 (2016)	Rotaru, A., Moanţă, A., Constantinescu, C.,Dumitru, M., Manolea, H.O., Andrei, A., Dinescu, M.	1.781
104.	Nd:YAG at its 50th anniversary: Still to learn	J. Lumin. 169 (Part B), 426-439 (2016)	V. Lupei, A. Lupei	2.693
105.	Spectroscopic and de-excitation properties of (Cr,Nd):YAG transparent ceramics	Opt. Mat. Express 6(2), 552-557 (2016)	V. Lupei, A. Lupei, C. Gheorghe, A. Ikesue	2.657
106.	Watt-Level Output Power Operation from Diode-Laser Pumped Circular Buried Depressed-Cladding Waveguides Inscribed in Nd:YAG by Direct Femtosecond-Laser Writing	IEEE Photonics Journal, 8(1), art. 1500209 (2016)	G. Salamu, F. Jipa, M. Zamfirescu, N. Pavel	2.177
107.	Emission sensitization processes involving Nd^{3+} in YAG	J. Lumin, 170(2), 594-601 (2016)	V. Lupei, A. Lupei, C. Gheorghe, A. Ikesue	2.693
108.	Characteristics of Ce^{3+}-doped barium titanate nanoshell tubes prepared by template-mediated colloidal chemistry	J. Europ. Ceram. Soc. 36(7),1633-1642 (2016)	A. C. Ianculescu, C. A. Vasilescu, L. Trupina, B. S. Vasile, R. Trusca, M. Cernea, L. Pintilie, A. Nicoara	2.933
109.	Advances in luminescence of lanthanide doped Y_2O_3: case of S_6 sites	Opt. Mater. Express **6(5)**, 1635-1643 (2016)	D. Avram, B. Cojocaru, M. Florea, and C. Tiseanu	2.657
110.	Czochralski Growth and Characterization of Incongruent	Cryst. Growth Des. 16(6), 3473-3479	L. Gheorghe, F. Khaled, A. Achim, F. Voicu, P.	4.425

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111.	Compositional dependence of optical properties of Sm^{3+}-doped $Y_3Sc_xAl_{5-x}O_{12}$ polycrystalline ceramics	J. Alloys Compd. 683, 547-553 (2016)	C. Gheorghe, A. Lupei, S. Hău, F. Voicu, L. Gheorghe, A. M. Vlaicu	3.014
112.	Power scaling from buried depressed-cladding waveguides realized in Nd:YVO_4 by femtosecond-laser beam writing	Opt. & Laser Techn. 84, 149-154 (2016)	G. Salamu, N. Pavel	1.879
113.	Spectroscopic properties and laser performances of Yb:LGSB nonlinear optical crystal	J. Alloys & Comp. 688 (Part A), 510-517 (2016)	F. Khaled, P. Loiseau, F. Voicu, A. Achim, S. Hau, C. Gheorghe, G. Croitoru, N. Pavel, L. Gheorghe, G. Aka	3.014
114.	Time-gated down-/up-conversion emission of Ho-CeO_2 and Ho, Yb-CeO_2 nanoparticles	J. Lumin. 179, 265-271 (2016)	D. Avram, I. Porosnicu, B. Cojocaru, M. Florea, C. Tiseanu	2.693
115.	Defects induced tunable near infrared emission of Er-CeO_2 by heterovalent co-dopants	Phys. Chem. Chem. Phys. 18(27), 182668-18277 (2016)	M. Florea, D. Avram, B. Cojocaru, I. Tiseanu, V. Parvulescu, C. Tiseanu	4.449
116.	High-peak power passively Q-switched Nd:YAG/Cr^{4+}:YAG composite laser with multiple-beam output	Photonics Research, 4(6), 267-271 (2016)	T. Dascalu, G. Croitoru, O. Grigore, N. Pavel	3.179
117.	Upconversion luminescence in $CaSc_2O_4$ doped with Er^{3+} and Yb^{3+}	J. Lumin. 180, 376-383 (2016)	A. Stefan, O. Toma, S. Georgescu	2.693
118.	Structure and dielectric properties of Ca doped $Sr_{0.5}Ba_{0.5}Nb_2O_6$ ceramic compositions	Romanian Journal of Materials 46(1), 70-74 (2016)	G. Stanciu, N. D. Scarisoreanu, V. Ion, M. Dumitru, E. Andronescu, M. Dinescu	0.612
119.	Rise in power of Yb:YCOB for green light generation by self-frequency doubling	Opt. Lett. 41(15), 3607-3610 (2016)	F. Khaled, P. Loiseau, G. Aka, L. Gheorghe	3.040
120.	Characterization of hydrogenated and deuterated silicon carbide films codeposited by magnetron sputtering	Nuclear Instruments and Methods in Physics Research B, Vol. 371, Pag. 322–326, 2016	D. Pantelica, P. Ionescu, H. Petrascu, M.D. Dracea, M. Statescu, E. Matei, O. Rasoga, C. Stancu, V. Marascu, V. Ion, T. Acsente, G. Dinescu	1.389
121.	Cleaning of carbon materials from flat surfaces and castellation gaps by an atmospheric pressure plasma jet	Fusion Engineering and Design, Vol. 103, Pag. 38–44, 2016	C. Stancu, D. Alegre, E.R. Ionita, B. Mitu, C. Grisolia, F.L. Tabares, G. Dinescu	1.301

122.	Surface modification of polymethylmethacrylate foils using an atmospheric pressure plasma jet in presence of water vapors	Thin Solid Films, Vol. 614, Pag. 25-30, 2016	Acsente, T ; Ionita, MD ; Teodorescu, M ; Marascu, V ; Dinescu, G	1.761
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125.	Laser-induced forward transfer of carbon nanowalls for soft electrodes fabrication	Applied Surface Science, Vol. 374, pag. 49-55, 2016	C. Constantinescu, S. Vizireanu, V. Ion, G. Aldica, S.D. Stoica, A. Lazea-Stoyanova, A.P. Alloncle, P. Delaporte, G. Dinescu	3.150
126.	FTIR investigation of the ageing process of carbon nanowalls	Romanian Reports in Physics, Vol. 68, No. 3, Pag. 1108-1114, 2016	V. Marascu, S. Vizireanu, S.D. Stoica, V. Barna, A. Lazea, G. Dinescu	1.367
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137.	Multi-wavelength laser irradiation of Be-C-W coatings	Digest Journal Of Nanomaterials And Biostructures Vol. 11, No. 1, January - March 2016, p. 293 - 302	L. Avotina, A. Marcu, C. Porosnicu, M. Lungu, A. Stancalie, A. G. Ilie, P. C.Ganea, D. Savastru, J. Kalnacs, C. P. Lungu, G. Kizane, S. Antohe	0.756
138.	Tribological Investigations on	Digest Journal Of	M. Lungu, I. Tiseanu, C.	0.756

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139.	Study on UV-visible emission plasmas with applications in photodynamic therapy and surface treatment against biological contaminants	Romanian reports in physics, Volume 68, Number 1, 2016	O.G. Pompilian, P. Dinca, C. Porosnicu, C.P. Lungu, P. Chiru, B.Butoi, I. Jepu	1.367
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141.	Experience of handling beryllium, tritium and activated components from JET ITER Like Wall	Phys. Scr. T167 (2016) 014057 (10pp); doi:10.1088/0031-8949/T167/1/014057	A. Widdowson, A. Baron-Wiechec, P.Batistoni, E. Belonohy, P. Coad, P. Dinca, D. Flammini, F. Fox, K. Heinola, I. Jepu, J. Likonen, S. Lilley, C. Lungu, G.Matthews, J.Naish, O Pompilian, C. Porosnicu, M.Rubel, R.Villari;	1.194
142.	Be/W and W/Be bilayers deposited on Si substrates with hydrogenated Fe-Cr and Fe-Cr-Al interlayers for plasma facing components	Journal of Nuclear Materials, Volume 481, 1 December 2016, Pages 73-80	S.G. Greculeasa, P. Palade, G. Schinteie, G.A. Lungu, C. Porosnicu, I. Jepu, C.P. Lungu, V. Kuncser	2.199
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158.	IR emission and electrical conductivity of Nd/Nb-codoped TiOx (1.5 < x < 2) thin films grown by pulsed-laser deposition	Appl. Surf.Sci. 389, 2016, 1062–1068	C. Tchiffo-Tameko, C. Cachoncinlle, J. Perriere, M. Nistor, A. Petit, O. Aubry, R. Pérez Casero, E. Millon	3.150
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161.	Amorphous thin films in the gallium-chalcogen system	Phys Status Solidi B 253(6) 1033-1037 (2016)	Popescu, M; Sava, F; Lorinczi, A; Velea, A; Simandan, ID; Galca, AC; Matei, E; Socol, G; Gherendi, F; Savastru, D; Miclos, S	1.522
162.	Study on the axial distribution of the stored microparticles in an electrodynamic trap by using software image processing,	Rom. Journ. Phys, vol. 61, Nos. 3-4, pp. 536-542 (2016)	O. S. Stoican	1.398
163.	Geodesic distance on Gaussian manifolds for the robust identification of chaotic systems	Nonlinear Dynamics, 86 (1), pp. 677-693.	Craciunescu, T., Murari, A.	3.000
164.	How to assess the efficiency of synchronization experiments in tokamaks	Nuclear Fusion, 56 (7), art. no. 076008.	Murari, A., Craciunescu, T., Peluso, E., Gelfusa, M., Lungaroni, M., Garzotti, L., Frigione, D., Gaudio, P.,	4.040
165.	Fusion product studies via fast ion D-D and D-3He fusion on JET	Nuclear Fusion, 56 (11), art. no. 112021.	Sharapov, S.E., Hellsten, T., Kiptily, V.G., Craciunescu, T., Eriksson, J., Fitzgerald, M., Girardo, J.-B., Goloborod'Ko, V., Hellesen, C.,	4.040

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167.	Evaluation of reconstruction errors and identification of artefacts for JET gamma and neutron tomography,	Review of Scientific Instruments, 87 (1), art. no. 013502.	Craciunescu, T., Murari, A., Kiptily, V., Lupelli, I., Fernandes, A., Sharapov, S., Tiseanu, I., Zoita, V.	1.336
168.	Upgrades of Diagnostic Techniques and Technologies for JET Next D-T Campaigns	IEEE Transactions on Nuclear Science, 63 (3), art. no. 7497673, pp. 1674-1681.	Murari, A., Figueiredo, J., Bekris, N., Perez Von Thun, C., Batistoni, P., Marocco, D., Belli, F., Tardocchi, M., Garcia Munoz, M., Silva, A., Soare, S., Craciunescu, T., Santala, M., Blanchard, P., Croft, D.,	1.148
169.	JET diagnostic enhancements in preparation for DT operations	Review of Scientific Instruments, 87 (11), art. no. 11D443.	Figueiredo, J., Murari, A., Perez Von Thun, C., Marocco, D., Tardocchi, M., Belli, F., García Muñoz, M., Silva, A., Soare, S., Craciunescu, T., Santala, M., Blanchard, P., Balboa, I., Hawkes, N.	1.336
170.	X-ray micro-laminography for the ex situ analysis of W-CFC samples retrieved from JET ITER-like wall	Physica Scripta, 2016 (T167), art. no. 014050.	Tiseanu, I., Craciunescu, T., Lungu, M., Dobrea, C.,	1.194
171.	High performance detectors for upgraded gamma ray diagnostics for JET DT campaigns	Physica Scripta, 91 (6), art. no. 064003.	Zychor, I., Boltruczyk, G., Burakowska, A., Craciunescu, T., Fernandes, A., Figueiredo, J., Giacomelli, L., Gorini, G., Gierlik, M., Gosk, M., Grodzicka, M., Iwanowska-Hanke, J.,	1.194

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172.	Overview of Progress on the EU DEMO Reactor Magnet System Design	IEEE Transactions on Applied Superconductivity	Zani, L.; Bayer, C. M.; Biancolini, M. E.; et al.	1.092
173.	Orientation distribution function of biotite platelets based on optical, thin sections and mu-CT image analysis in an Outokumpu (Finland) biotite gneiss: Comparison with neutron diffraction texture analysis	RUSSIAN JOURNAL OF EARTH SCIENCES, vol. 16,Issue: 3, DOI: 10.2205/2016ES 000573, 2016	Duliu, OG ; Ivankina, TI; Herman, E ; Ricman, C; Tiseanu, I	0.456
174.	Influence of Strands Trajectories of JT-60SA TF Conductors on Their Hydraulic and Electromagnetic Properties	IEEE Transactions on Applied Superconductivity, vol. 26, Issue: 4, DOI: 10.1109/TASC.2016.2 532738, 2016	Zani, L ; Barabaschi, P; Di Pietro, E, Decool, P; Tiseanu, I, Tiseanu, C ; Torre, A; Verrecchia, M; Wang, T	1.092
175.	Tribological investigations on laser irradiated composite thin films prepared by TVA technique	Digest Journal of Nanomaterials and Biostructures, vol. 11,Issue: 2, pp. 401-410, 2016	Lungu, M; Tiseanu, I; Porosnicu, C; Dobrea, C; Jepu, I; Dinca, P; Marcu, A; Lungu, CP	0.756
176.	Thermo-mechanical properties of W/Mo markers coatings deposited on bulk W	Physica Scripta, Vol. T167, Article Number: 014028, (2016)	E. Grigore, C. Ruset, M. Gherendi, D. Chioibasu, A. Hakola	1.194
177.	Study of the pores inside tungsten coating after thermal cycling for fusion device,	Physica Scripta, Vol. T167, Article Number: 014060, (2016)	C. Desgranges, M. Firdaouss, C. Hernandez, C. Martin, C .Ruset, E. Grigore, M. Missirlian, F. Samaille, J. Bucalossi	1.194
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180.	Kinetics of carbide formation in the molybdenum-tungsten coatings used in the ITER-like Wall	Physica Scripta, Volume: T167, Article Number: 014048	Maier, H ; Rasinski, M; von Toussaint,; Greuner, H ; Boswirth, B; Balden, M ; Elgeti, S; Ruset, C ; Matthews, GF	1.194
181.	Absorbed dose determination in conventional and laser-driven hadron clinical beams using electrical charge measurements	ROMANIAN REPORTS IN PHYSICS, 68(1), 210-219, 2016	Scarlat, F; Verga, N; Scarisoreanu, A; Badita, E; Demeter, M; Stancu, E; Vancea, C; Scarlat, FL;	1.367
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184.	Wood Sawdust/Natural Rubber Ecocomposites Cross-Linked by Electron Beam Irradiation",	MATERIALS, 9(7), Article Number: 503, 2016	Manaila, E; Stelescu, MD; Craciun, G; Ighigeanu, D,	2.728
185.	The improvement of the resistance to Candida Albicans and Trichophyton interdigitale of some cotton textile materials by treating with oxygen plasma and chitosan	The Journal of The Textile Institute, 107(11), 1426-1433, 2016	L. Surdu, M. D. Stelescu, O. Iordache, E. Manaila, G. Craciun, L. Alexandrescu, L. C. Dinca,	1.128
186.	Comparation Between Chemical Compositions of Some Essential Oils Obtained by Hydrodistillation from Citrus Peels	REVISTA DE CHIMIE, 67(1), 106-112, 2016	Manaila, E; Berechet, MD; Stelescu, MD; Craciun, G; Mihaiescu, DE; Purcareanu, B; Calinescu, I; Fudulu, A; Radu, M,	0.956
187.	Electron Beam Synthesis and Characterization of Acrylamide/Acrylic Acid	JOURNAL OF CHEMISTRY, Article Number: 1470965,	Craciun, G; Manaila, E; Stelescu, MD	0.996

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188.	Obtaining of a new type of polyelectrolyte based on acrylamide and hydrolyzed collagen by electron beam irradiation	Polymer Bulletin, DOI:10.1007/s00289-016-1778-0, 2016	G. Craciun, E. Manaila, M. Niculescu, D. Ighigeanu,	1.371
189.	New Elastomeric Materials Based on Natural Rubber Obtained by Electron Beam Irradiation for Food and Pharmaceutical Use	MATERIALS 9 (12), 999, 2016	Craciun G., Manaila, E; Stelescu MD	2.728
190.	Radiological safety assessment for the experimental area of a hyper-intense laser with peak—power of 1PW—CETAL,	Radiation Protection Dosimetry 1-6, 2016	M. G. Florescu, O. G. Duliu, D. Pantazi, C. M. Ticos, D. Sporea, R. Vasilache, V. Ionescu, M. Oane,	0,894
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192.	The Microbial Quality and Decontamination Approaches for the Herbal Medicinal Plants and Products: An in-Depth Review	Current Pharmaceutical Design, Vol. 22, No. 27, 4264-4287, 2016	D.D.M. Ghisleni, M.S. Braga, I.S. Kikuchi, M. Braşoveanu, M.R. Nemţanu, K. Dua, T.J.A. Pinto	3,052
193.	Impact of Electron Beam Irradiation on Quality of Sea Buckthorn (*Hippophae rhamnoides* L.) Oil	Journal of the Science of Food and Agriculture, Vol. 96, Iss. 5, 1736-1744, 2016	M.R. Nemţanu, M. Braşoveanu	2,076
194.	White-light diffraction phase microscopy at doubled space-bandwidth product	OPTICS EXPRESS	Shan, MG; Kandel, ME; Majeed, H; Nastasa, V; Popescu, G	3,14
195.	Tungsten coatings for application in WEST project	NUCLEAR MATERIALS AND ENERGY	Grigore, E; Gherendi, M; Hernandez, C; Desgranges, C; Firdaouss, M	2,69
196.	Binuclear Lanthanide-Radical Complexes Featuring Two Centers with Different Magnetic and Luminescence Properties	INORGANIC CHEMISTRY	Reis, SG; Briganti, M; Soriano, S; Guedes, GP; Calancea, S; Tiseanu, C; Novak, MA; del Aguila-Sanchez, MA; Totti, F; Lopez-Ortiz, F; Andruh, M; Vaz, MGF	4.82

197.	Dielectric and photoluminescence properties of Nd and Ga codoped-BaTiO3, prepared by sol-gel method	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	Cernea, M; Vasilescu, CA; Secu, M; Aldica, G; Surdu, A; Ganea, P	2.30
198.	Structural and Magnetoresistive Properties of Nanometric Films Based on Iron and Chromium Oxides on the Si Substrate	NANOSCALE RESEARCH LETTERS	Smirnov, AB; Kryvyi, SB; Mulenko, SA; Sadovnikova, ML; Savkina, RK; Stefan, N	2.584
199.	Large third-order optical nonlinearities in iron oxide thin films synthesized by reactive pulsed laser deposition	OPTICAL MATERIALS	Mulenko, SA; Rudenko, VI; Liakhovetskyi, VR; Brodin, AM; Stefan, N	2.183
200.	Investigation of optical, structural, morphological and antimicrobial properties of carboxymethyl cellulose capped Ag-ZnO nanocomposites prepared by chemical and mechanical methods	MATERIALS CHARACTERIZATION	Lungu, MV; Vasile, E; Lucaci, M; Patroi, D; Mihailescu, N; Grigore, F; Marinescu, V; Bratulescu, A; Mitrea, S; Sobetkii, A; Sobetkii, AA; Popa, M; Chifiriuc, MC	2.728
201.	Data storage applications based on LiCoO2 thin films grown on Al2O3 and Si substrates	APPLIED SURFACE SCIENCE	Svoukis, E; Mihailescu, CN; Mai, VH; Schneegans, O; Breza, K; Lioutas, C; Giapintzakis, J	3.38
202.	On the in vitro cytotoxicity of graphene oxide nanomaterials	FEBS JOURNAL	Grumezescu, V; Negut, I; Sima, F; Axente, E; Sima, LE	4.237
203.	Fe3O4 nanoarchitectures functionalized with eugenol modulate virulence, biofilm formation and quorum sensing molecular signaling in Pseudomonas aeruginosa	FEBS JOURNAL	Holban, AM; Grumezescu, AM; Chifiriuc, MC; Ditu, LM; Curutiu, C; Cotar, AI; Grumezescu, V; Sarbu, EM; Lazar, V	4.237
204.	On Electron Adiabaticity in Collisionless Shocks	JOURNAL OF PHYSICS D-APPLIED PHYSICS	Sporea, D; Mihai, L; Negut, D; Luo, YH; Yan, BB; Ding, MJ; Wei, S; Peng, GD	2.40
205.	gamma irradiation induced effects on bismuth active centres and related photoluminescence properties of Bi/Er co-doped optical fibres	FRONTIERS IN PHYSICS	Florea, M; Avram, D; Cojocaru, B; Tiseanu, I; Parvulescu, V; Tiseanu, C	2.462
206.	gamma irradiation induced effects on bismuth active centres and related	SCIENTIFIC REPORTS	Sporea, D; Mihai, L; Negut, D; Luo, YH; Yan, BB; Ding, MJ; Wei, S;	5.47

	photoluminescence properties of Bi/Er co-doped optical fibres		Peng, GD	
207.	Defect induced tunable near infrared emission of Er-CeO2 by heterovalent co-dopants	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	Florea, M; Avram, D; Cojocaru, B; Tiseanu, I; Parvulescu, V; Tiseanu, C	4.449
208.	Special issue on: Laser and plasma processing for advanced applications in material science (E-MRS 2015 Spring Meeting Symposium) Preface	APPLIED SURFACE SCIENCE	Bonse, J; Zergioti, I; Delaporte, P; Scarisoreanu, ND	3.15
209.	One long and two short pumping pulses control for plasma x-ray amplifier optimization	OPTICS EXPRESS	Cojocaru, GV; Ungureanu, RG; Banici, RA; Ursescu, D; Guilbaud, O; Delmas, O; Le Marec, A; Neveu, O; Demailly, J; Pittman, M; Kazamias, S; Daboussi, S; Cassou, K; Li, L; Klisnick, A; Zeitoun, P; Ros,	3.148
210.	Development of large area diamond detectors for time-of-flight measurements of relativistic heavy ions for the super-FRS	JOURNAL OF PHYSICS D-APPLIED PHYSICS	Schirru, F; Nociforo, C; Kis, M; Ciobanu, M; Fruhauf, J; Kratz, A; Kurz, N; Szczepanczyk, B; Trager, M; Visinka, R	2,772
211.	Fs Laser-Induced Plasmas from Energetic Polymers: Towards Micro-Laser Plasma Thruster Application	PLASMA PROCESSES AND POLYMERS	Papavlu, AP; Urech, L; Lippert, T; Phipps, C; Hermann, J; Wokaun, A	2.944
212.	Statistical dispersion relation for spatially broadband fields	CERAMICS INTERNATIONAL	Ianculescu, A; Pintilie, I; Vasilescu, CA; Botea, M; Iuga, A; Melinescu, A; Dragan, N; Pintilie, L	2.758
213.	Highly sensitive SnO2 sensor via reactive laser-induced transfer	SCIENTIFIC REPORTS	Papavlu, AP; Mattle, T; Temmel, S; Lehmann, U; Hintennach, A; Grisel, A; Wokaun, A; Lippert, T	5.47
214.	Polyvinylphenol (PVP) microcapacitors printed by laser-induced forward transfer (LIFT): multilayered pixel design and thermal analysis investigations	JOURNAL OF PHYSICS D-APPLIED PHYSICS	Constantinescu, C; Rapp, L; Rotaru, P; Delaporte, P; Alloncle, AP	2.77
215.	BISMUTH OXIDE THIN FILMS DEPOSITED ON SILICON THROUGH PULSED LASER ABLATION, FOR INFRARED	SURFACE REVIEW AND LETTERS	Condurache-Bota, S; Constantinescu, C; Tigau, N; Praisler, M	0.435

	DETECTORS			
216.	Invariance of molecular charge transport upon changes of extended molecule size and several related issues	BEILSTEIN JOURNAL OF NANOTECHNOLOGY	Baldea, I	2.778
217.	The relationship between magnetism and magneto-optical effects in rare earth doped aluminophosphate glasses	JOURNAL OF PHYSICS D-APPLIED PHYSICS	Valeanu, M; Sofronie, M; Galca, AC; Tolea, F; Elisa, M; Sava, B; Boroica, L; Kuncser, V	2.772
218.	Tunable ZnO spheres with high anti-biofilm and antibacterial activity via a simple green hydrothermal route	JOURNAL OF COLLOID AND INTERFACE SCIENCE	Patrinoiu, G; Calderon-Moreno, JM; Chifiriuc, CM; Saviuc, C; Birjega, R; Carp, O	3.368
219.	Synthesis of new photoactive urethane carbohydrates and their behavior in UV or femtosecond laser-induced two-photon polymerization	DESIGNED MONOMERS AND POLYMERS	Chibac, AL; Buruiana, T; Melinte, V; Mangalagiu, I; Epurescu, G; Buruiana, EC	1.497
220.	Real-time digital holographic interferometry set-up for phase gradient study in dynamic phase objects using spatial light modulator	ADVANCED TOPICS IN OPTOELECTRONICS, MICROELECTRONICS, AND NANOTECHNOLOGIES VIII	Sima, A; Schiopu, P; Logofatu, PC	0.683
221.	Fast atomic diffusion in amorphous films induced by laser pulse annealing	2016 39TH INTERNATIONAL SEMICONDUCTOR CONFERENCE (CAS)	Teodorescu, VS; Ghica, C; Maraloiu, AV; Kuncser, A; Lepadatu, AM; Stavarache, I; Ciurea, ML; Scarisoreanu, ND; Andrei, A; Dinescu, M	2.048
222.	Important impact of the experimental platform on the efficient control of electronic and vibrational properties of molecular junctions	INTERNATIONAL JOURNAL OF NANOTECHNOLOGY	Baldea, I	0.663
223.	A NEW FAMILY OF WOODS-SAXON POTENTIALS WITH COMPLEX POLES	ROMANIAN JOURNAL OF PHYSICS	Niculescu, VIR; Popescu, D; Anton, R; Sandru, L	1.398
224.	Assessment of mid-IR Components for Spaceborne Instrumentation Radiation tests	2016 IEEE METROLOGY FOR AEROSPACE (METROAEROSPACE)	Sporea, D; Mihai, L; Sporea, A; Ighigeanu, D; Negut, D	1.159
225.	Characterization of nitrogen doped silicon-carbon multi-layer nanostructures obtained by TVA method	NANOSTRUCTURED THIN FILMS IX	Ciupina, V; Vasile, E; Porosnicu, C; Prodan, GC; Lungu, CP; Vladoiu, R; Jepu, I; Mandes, A;	5.34

			Dinca, V; Caraiane, A; Nicolescu, V; Dinca, P; Zaharia, A	
226.	Recent Approaches to Enhance the Selectivity of Peroxynitrite Detection	PEROXYNITRITE DETECTION IN BIOLOGICAL MEDIA: CHALLENGES AND ADVANCES	Vasilescu, A; Dinca, V; Filipescu, M; Rusen, L; Hosu, IS; Boukherroub, R; Szunerits, S; Dinescu, M; Peteu, SF	1.953
227.	Sustainable one-pot integration of ZnO nanoparticles into carbon spheres: manipulation of the morphological, optical and electrochemical properties	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	Patrinoiu, G; Calderon-Moreno, JM; Birjega, R; Culita, DC; Somacescu, S; Musuc, AM; Spataru, T; Carp, O	4.449
228.	Polymer-graphene composites by the photocuring of a system containing benzophenone macromer	JOURNAL OF THE SERBIAN CHEMICAL SOCIETY	Jitaru, F; Chibac, AL; Epurescu, G; Ion, I; Buruiana, T	0.997
229.	Fractional molecular charge studied via molecular vibrational properties. Specific aspects in Jahn-Teller active molecular species	RSC ADVANCES	Baldea, I	3.289
230.	Convex and concave micro-structured silicone controls the shape, but not the polarization state of human macrophages	BIOMATERIALS SCIENCE	Malheiro, V; Lehner, F; Dinca, V; Hoffmann, P; Maniura-Weber, K	3.614
231.	STUDY OF PASCHEN CONDITION IN THE FRAME OF MONOCHROMATIZATION - EFFECT OF VISIBLE LIGHT	ROMANIAN JOURNAL OF PHYSICS	Ciobotaru, LC; Gruia, I	1.398
232.	The Influence of the Dielectric Constant in Dielectric Resonator Antennas	2016 INTERNATIONAL CONFERENCE ON COMMUNICATIONS (COMM 2016)	Moni, MV; Tuta, L; Grecu, IV; Turcan, MG; Banciu, G	
233.	STRUCTURAL CHARACTERIZATION AND OPTICAL PROPERTIES OF HYDROXYAPATITE/COLLAGEN MATRIX	ROMANIAN REPORTS IN PHYSICS	Popa, CL; Albu, M; Bartha, C; Costescu, A; Luculescu, C; Trusca, R; Antohe, S	1.367
234.	Big Data in Plant Science: Resources and Data Mining Tools for Plant Genomics and Proteomics	DATA MINING TECHNIQUES FOR THE LIFE SCIENCES	Popescu, GV; Noutsos, C; Popescu, SC	2.57
235.	CUBIC OPTICAL NONLINEARITY OF THIN Fe2O3 AND Cr2O3 FILMS SYNTHESIZED BY PULSED LASER DEPOSITION	UKRAINIAN JOURNAL OF PHYSICS	Brodyn, MS; Mulenko, SA; Rudenko, VI; Liakhovetskyi, VR; Volovyk, MV; Stefan, N	0.783
236.	DETERMINATION OF THE	UNIVERSITY	Moldovan, A; Buzatu, D;	0.365

	LOCAL DIELECTRIC CONSTANT OF INSULATING MATERIALS BY AN ATOMIC FORCE MICROSCOPY TECHNIQUE	POLITEHNICA OF BUCH. SCIENTIFIC BULLETIN APPLIED MATHEMATICS AND PHYSICS	Enachescu, M	
237.	QUASI-MONOCHROME LIGHT POLARIZATION STUDY IN BINARY ELECTROPOSITIVE-ELECTRONEGATIVE GAS MIXTURE	ROMANIAN JOURNAL OF PHYSICS	Ciobotaru, LC; Gruia, I	1.398
238.	The Taiga project	INTERNATIONAL CONFERENCE ON PARTICLE PHYSICS AND ASTROPHYSICS (ICPPA-2015), PTS 1-4	Yashin, II; Astapov, II; Barbashina, NS; Bogdanov, AG; Boreyko, V; Budnev, NM; Buker, M; Bruckner, M; Chiavassa, A; Chvalaev, OB; Gafarov, AV; Gorbunov, N; Poleschuk, VA; Popescu, M; Zagorodnikov, AV; Zirakashvili, VN; Zurbanov, VL	
239.	Effect of Spin Coating Technique on Mechanical Properties of Silicophosphate Thin Film Doped by Neodymium	3RD INTERNATIONAL CONFERENCE ON NANOTECHNOLOGIES AND BIOMEDICAL ENGINEERING	Grabco, D; Shikimaka, O; Elisa, M; Sava, B; Boroica, L; Harea, E; Pyrtsac, C; Prisacaru, A; Feraru, I; Barbos, Z; Vreme, I	
240.	ABC transporter PEN3/PDR8/ABCG36 interacts with calmodulin that, like PEN3, is required for Arabidopsis nonhost resistance	NEW PHYTOLOGIST	Campe, R; Langenbach, C; Leissing, F; Popescu, GV; Popescu, SC; Goellner, K; Beckers, GJM; Conrath, U	7.21
INFLPR				
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Factor de impact cumulat al lucrarilor cotate ISI:				**555.575**

Nr. Crt.	Titlu	Revista, vol., pg., anul	Autori	Factor de impact
1.	D-meson production in p-Pb collisions at root S-NN=5.02 TeV and in pp collisions at root S=7 TeV	Phys. Rev. C, Vol. 94, Issue 5, Art. nr. 054908	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	3.146
2.	Correlated Event-by-Event Fluctuations of Flow Harmonics	Phys. Rev. Lett., Vol. 117, Issue 18, Art.	Abelev, B.; Adam, J.; Adamova, D.; et al.,	7.645

	in Pb-Pb Collisions at root S-NN=2.76 TeV	nr. 182301	Colaborarea ALICE	
3.	Measurement of transverse energy at midrapidity in Pb-Pb collisions at root s(NN)=2.76 TeV	Phys. Rev. C, Vol. 94, Issue 3, Art. nr. 034903	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	3.146
4.	Multiplicity dependence of charged pion, kaon, and (anti)proton production at large transverse momentum in p-Pb collisions root S-NN=5.02 TeV	Phys. Lett. B, Vol. 760, Pages 720-735	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	4.787
5.	Elliptic flow of electrons from heavy-flavour hadron decays at mid-rapidity in Pb-Pb collisions at root s(NN)=2.76 TeV	JOURNAL OF HIGH ENERGY PHYSICS, Issue 9, Art. nr. 028	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	6.023
6.	Measurement of D-meson production versus multiplicity in p-Pb collisions at root s(NN)=5.02 TeV	JOURNAL OF HIGH ENERGY PHYSICS, Issue 8, Art. nr. 078	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	6.023
7.	Multi-strange baryon production in p-Pb collisions at root(NN)-N-S=5.02 TeV	Phys. Lett. B, Vol. 758, Pages 389-401	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	4.787
8.	Centrality Dependence of the Charged-Particle Multiplicity Density at Midrapidity in Pb-Pb Collisions at root(NN)-N-S=5.02 TeV	Phys. Rev. Lett., Vol. 116, Issue 22, Art. nr. 222302	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	7.645
9.	Measurement of an Excess in the Yield of J/psi at Very Low p(T) in Pb-Pb Collisions at root s(NN)=2.76 TeV	Phys. Rev. Lett., Vol. 116, Issue 22, Art. nr. 222301	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	7.645
10.	Differential studies of inclusive J/psi and psi (2S) production at forward rapidity in Pb-Pb collisions at root s(NN)=2:76 TeV	JOURNAL OF HIGH ENERGY PHYSICS, Issue 5, Art. nr. 179	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	6.023
11.	Particle identification in ALICE: a Bayesian approach	EUROPEAN PHYSICAL JOURNAL PLUS Vol. 131, Issue 5, Art. nr. 168	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	1.521
12.	Multipion Bose-Einstein correlations in pp, p-Pb, and Pb-Pb collisions at energies available at the CERN Large Hadron Collider	Phys. Rev. C, Vol. 93, Issue 5, Art. nr. 054908	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	3.146
13.	Production of K*(892)(0) and phi(1020) in p-Pb collisions at root s(NN)=5.02 TeV	EUROPEAN PHYSICAL JOURNAL C Vol. 76, Issue 5, Art. nr. 245	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	4.912

14.	Charge-dependent flow and the search for the chiral magnetic wave in Pb-Pb collisions at root s(NN)=2.76 TeV	Phys. Rev. C, Vol. 93, Issue 4, Art. nr. 044903	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	3.146
15.	Inclusive quarkonium production at forward rapidity in pp collisions at root s=8 TeV	EUROPEAN PHYSICAL JOURNAL C Vol. 76, Issue 4, Art. nr. 184	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	4.912
16.	Anisotropic Flow of Charged Particles in Pb-Pb Collisions at root S-NN=5.02 TeV	Phys. Rev. Lett., Vol. 116, Issue 13, Art. nr. 132302	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	7.645
17.	Event-shape engineering for inclusive spectra and elliptic flow in Pb-Pb collisions at root(NN)-N-S=2.76 TeV	Phys. Rev. C, Vol. 93, Issue 3, Art. nr. 034916	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	3.146
18.	Centrality dependence of the nuclear modification factor of charged pions, kaons, and protons in Pb-Pb collisions at root s(NN)=2.76 TeV	Phys. Rev. C, Vol. 93, Issue 3, Art. nr. 034913	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	3.146
19.	Measurement of D-s(+) product ion and nuclear modification factor in Pb-Pb collisions at root S-NN=2.76 TeV	JOURNAL OF HIGH ENERGY PHYSICS , Issue: 3, Art. nr. 082	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	6.023
20.	Transverse momentum dependence of D-meson production in Pb-Pb collisions at root S-NN=2.76 TeV	JOURNAL OF HIGH ENERGY PHYSICS , Issue: 3, Art. nr. 081	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	6.023
21.	Measurement of electrons from heavy-flavour hadron decays in p-Pb collisions at root s(NN)=5.02 TeV	Phys. Lett. B, Vol. 754, Pages 81-93	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	4.787
22.	Direct photon production in Pb-Pb collisions at root s(NN)=2.76 TeV	Phys. Lett. B, Vol. 754, Pages 235-248	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	4.787
23.	(3)(Lambda)Hand (3)((Lambda)over-bar)(H)over-bar production in Pb-Pb collisions at root s(NN)=2.76 TeV	Phys. Lett. B, Vol. 754, Pages 360-372	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	4.787
24.	Centrality evolution of the charged-particle pseudorapidity density over a broad pseudorapidity range in Pb-Pb collisions at root s(NN)=2.76TeV	Phys. Lett. B, Vol. 754, Pages 373-385	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	4.787
25.	Production of light nuclei and anti-nuclei in pp and Pb-Pb collisions at energies available at the CERN Large Hadron	Phys. Rev. C, Vol. 93 , Issue: 2, Art. nr. 024917	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	3.146

	Collider			
26.	Multiplicity and transverse momentum evolution of charge-dependent correlations in pp, p-Pb, and Pb-Pb collisions at the LHC	EUROPEAN PHYSICAL JOURNAL C, Vol. 76, Issue: 2, Art. nr. 86	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	4.912
27.	Elliptic flow of muons from heavy-flavour hadron decays at forward rapidity in Pb-Pb collisions at root s(NN)=2.76TeV	Phys. Lett. B, Vol. 753, Pages 41-56	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	4.787
28.	Forward-central two-particle correlations in p-Pb collisions at root s(NN)=5.02 TeV	Phys. Lett. B, Vol. 753, Pages 126-139	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	4.787
29.	Pseudorapidity and transverse-momentum distributions of charged particles in proton-proton collisions at root s=13 TeV	Phys. Lett. B, Vol. 753, Pages 319-329	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	4.787
30.	Azimuthal anisotropy of charged jet production in root s(NN)=2.76 TeV Pb-Pb collisions	Phys. Lett. B, Vol. 753, Pages 511-525	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	4.787
31.	Centrality dependence of pion freeze-out radii in Pb-Pb collisions at root s(NN)=2.76 TeV	Phys. Rev. C, Vol. 93 , Issue: 2, Art. nr. 024905	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	3.146
32.	Search for weakly decaying (Lambda n)over-bar and Lambda Lambda exotic bound states in central Pb-Pb collisions at root S-NN=2.76 TeV	Phys. Lett. B, Vol. 752, Pages 267-277	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	4.787
33.	Study of cosmic ray events with high muon multiplicity using the ALICE detector at the CERN Large Hadron Collider	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS , Issue: 1, Art. nr. 032	Abelev, B.; Adam, J.; Adamova, D.; et al., Colaborarea ALICE	5.634
34.	Hydrodynamic flow and phase transitions in relativistic nuclear collisions reflected by Hubble type fireball evolution	Rom.Rep.Phys. 68 no.3, 1060, 2016	C. Ristea, A. Jipa, O. Ristea, I. Lazanu, C. Besliu, T. Esanu, M. Calin, N.G. Tuturas, V. Baban, D. Argintaru	1.367
35.	Rapidity and centrality dependence of particle production for identified hadrons in Cu+Cu collisions at sNN=200 GeV	Phys.Rev. C94 (2016) no.1, 014907	BRAHMS Collaboration (I.C. Arsene et al.)	3.146
36.	ANALYSIS OF A GROUND BASED SYSTEM FOR THE CALIBRATION OF ORBITAL UV TELESCOPES WITH PIXELATED DETECTORS	ROMANIAN REPORTS IN PHYSICS, Volume: 68, Issue: 2, Pages:	E.M. Popescu, A. A. Radu, H. Haiduc, E. Firu, A. T. Neagu.	1.367

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37.	FORWARD BACKWARD AZIMUTHAL CORRELATION IN HIGH ENERGY NUCLEUS-NUCLEUS INTERACTIONS	ROMANIAN REPORTS IN PHYSICS, Volume: 68, Issue: 2, Pages: 515-529, Published: 2016	S. Bhattacharyya, H. Haiduc, A. T. Neagu, E. Firu.	1.367
38.	Energy dependence of event-by-event kaon fluctuation in Au plus Au collisions at=19.6-200 GeV-a simulated study	JETP LETTERS, Volume: 103, Issue: 10, Pages: 618-623, DOI:10.1134/S0021364016100039, Published: MAY 2016	S. Bhattacharyya, H. Haiduc, A. T. Neagu, E. Firu.	1.172
39.	Centrality dependence of total disintegration of target nuclei in high energy nucleus-nucleus interactions	CANADIAN JOURNAL OF PHYSICS, Volume: 94, Issue: 9, Pages: 884-893, DOI: 10.1139/cjp-2016-0184, Published: SEP 2016	S. Bhattacharyya, H. Haiduc, A. T. Neagu, E. Firu.	0.724
40.	A study of pion fluctuation and correlation in heavy-ion collisions	EUROPEAN PHYSICAL JOURNAL A, Volume: 52, Issue: 9, Article Number: 301, DOI: 10.1140/epja/i2016-16301-1, Published: SEP 30 2016	S. Bhattacharyya, H. Haiduc, A. T. Neagu, E. Firu.	2.374
41.	Ultra high-energy neutrino follow-up of gravitational wave events GW150914 and GW151226 with the Pierre Auger Observatory	Physical Review D, Volume 94, Issue 12, id.122007, 2016	Aab. A, .. Isar, P.G. et al., Pierre Auger Collaboration	4.506
42.	A comparison of the cosmic-ray energy scales of Tunka-133 and KASCADE-Grande via their radio extensions Tunka-Rex and LOPES	Physics Letters B, Volume 763, p. 179-185, 2016	Apel, W.d. … Isar, P.G. et al., LOPES Collaboration	4.787
43.	Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory	Physical Review Letters, Volume 117, Issue 19, id.192001, 2016	Aab. A, .. Isar, P.G. et al., Pierre Auger Collaboration	7.645
44.	Evidence for a mixed mass composition at the 'ankle' in the cosmic-ray spectrum	Physics Letters B, Volume 762, p. 288-295, 2016	Aab. A, .. Isar, P.G. et al., Pierre Auger Collaboration	4.787

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46.	Measurement of the Radiation Energy in the Radio Signal of Extensive Air Showers as a Universal Estimator of Cosmic-Ray Energy	Physical Review Letters, Volume 116, Issue 24, id.241101, 2016	Aab. A, .. Isar, P.G. et al., Pierre Auger Collaboration	7.645
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48.	Azimuthal asymmetry in the risetime of the surface detector signals of the Pierre Auger Observatory	Physical Review D, Volume 93, Issue 7, id.072006, 2016	Aab. A, .. Isar, P.G. et al., Pierre Auger Collaboration	4.506
49.	Prototype muon detectors for the AMIGA component of the Pierre Auger Observatory	Journal of Instrumentation, Volume 11, Issue 02, pp. P02012, 2016	Aab. A, .. Isar, P.G. et al., Pierre Auger Collaboration	1.310
50.	Improved absolute calibration of LOPES measurements and its impact on the comparison with REAS 3.11 and CoREAS simulation	Astroparticle Physics, Volume 75, p. 72-74., 2016	Apel, W.D. ... Isar, P.G. et al., LOPES Collaboration	3.425
51.	Nanosecond-level time synchronization of autonomous radio detector stations for extensive air showers	Journal of Instrumentation, Volume 11, Issue 01, article id. P01018, 2016	Aab. A, .. Isar, P.G. et al., Pierre Auger Collaboration	1.310
52.	Search for correlations between the arrival directions of IceCube neutrino events and ultrahigh-energy cosmic rays detected by the Pierre Auger Observatory and the Telescope Array	Journal of Cosmology and Astroparticle Physics, Issue 01, article id. 037, 2016	IceCube Collaboration, Pierre Auger Collaboration, Telescope Array Collaboration	5.634
53.	Evolution of Global Relativistic Jets: Collimations and Expansion with kKHI and the Weibel Instability	Astrophysical Journal, 820, 94, 2016	Nishikawa, K.-I., Frederiksen, J. T., Nordlung, A.,..., Dutan, I.,..., et al.	5.909
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55.	Study of extensive air showers în the Earth's atmosphere	Rom. Rep. Phys., 68(4), 1488-1494, 2016	Iuliana Bacioiu	1.367
56.	3D visualization for simulated extensive air shower (EAS) using Corsika and Blender 3D	Rom. Rep. Phys. 68(2) (2016)	G. Chiritoi, M.E. Popescu, A. Jipa	1.367

57.	Measures of electronic vibrational entanglement and quantum coherence in a molecular system,	PHYSICAL REVIEW A 92, 042323 (2015)	Vatasescu, Mihaela	2.76
58.	Diamagnetism of ideal electron gas: self-consistent approach	ROMANIAN JOURNAL OF PHYSICS 61, 9-10, 1465 (2016)	Bundaru, Raluca	1.39
59.	Thermodynamics, contact, and density profiles of the repulsive Gaudin-Yang model	PHYSICAL REVIEW A 93, 033616 (2016).	Patu, Ovidiu I.; Kluemper, Andreas	2.76
60.	Invariance of molecular charge transport upon changes of extended molecule size and several related issues	BEILSTEIN JOURNAL OF NANOTECHNOLOGY 7, (2016)	Baldea, Ioan	2.77
61.	Tuning the conformation of floppy molecules by charge transfer RSC Advances 6, 111903-111907 (2016)	RSC Advances 6, 111903-111907 (2016)	Baldea, Ioan	3.28
62.	Fractional molecular charge studied via molecular vibrational properties. Specific aspects in Jahn-Teller active molecular species	RSC ADVANCES 6, 93715-93721 (2016)	Baldea, Ioan	3.28
63.	Fractional advection differential equation within Caputo and Caputo-Fabrizio derivatives	ADVANCES IN MECHANICAL ENGINEERING 8, Art. No.:1687814016683 305 (2016)	Baleanu, Dumitru; Agheli, Bahram; Al Qurashi, Maysaa Mohamed	0.64
64.	Explicit iteration to Hadamard fractional integro-differential equations on infinite domain	ADVANCES IN DIFFERENCE EQUATIONS, Art. No.: 299 (2016)	Wang, Guotao; Pei, Ke; Baleanu, Dumitru	0.29
65.	Formulation of Euler-Lagrange and Hamilton equations involving fractional operators with regular kernel	ADVANCES IN DIFFERENCE EQUATIONS, Art. No.: 283 (2016)	Coronel-Escamilla, Antonio; Francisco Gomez-Aguilar, Jose; Baleanu, Dumitru; et al.,	0.29
66.	On the Existence and Uniqueness of Solutions for Local Fractional Differential Equations	ENTROPY 18, Art. No.: 420 (2016)	Jafari, Hossein; Jassim, Hassan Kamil; Al Qurashi, Maysaa; Baleanu, Dumitru	1.74
67.	Chaos synchronization of fractional chaotic maps based on the stability condition	PHYSICA A-STATISTICAL MECHANICS AND ITS	Wu, Guo-Cheng; Baleanu, Dumitru; Xie, He-Ping; et al.	1.78

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68.	Solutions of the time fractional reaction-diffusion equations with residual power series method	ADVANCES IN MECHANICAL ENGINEERING 8, Art. No.: 1687814016670867	Tchier, Fairouz; Inc, Mustafa; Korpinar, Zeliha S.; Baleanu, Dumitru	0.64
69.	A generalized q-fractional Gronwall inequality and its applications to nonlinear delay q-fractional difference systems	JOURNAL OF INEQUALITIES AND APPLICATIONS, Art. No.: 240 (2016)	Abdeljawad, Thabet; Alzabut, Jehad; Baleanu, Dumitru	0.63
70.	Low-regret control for a fractional wave equation with incomplete data	ADVANCES IN DIFFERENCE EQUATIONS, Art. No.: 240 (2016)	Baleanu, Dumitru; Joseph, Claire; Mophou, Gisele	0.29
71.	Discrete fractional differences with nonsingular discrete Mittag-Leffler kernels	ADVANCES IN DIFFERENCE EQUATIONS, Art. No.: 232 (2016)	Abdeljawad, Thabet; Baleanu, Dumitru	0.29
72.	A fractional derivative inclusion problem via an integral boundary condition	JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS 21, 504-514 (2016)	Baleanu, Dumitru; Moghaddam, Mehdi; Mohammadi, Hakimeh; et al.	0.79
73.	A novel computational approach to approximate fuzzy interpolation polynomials	SPRINGERPLUS 5, Art. No.: 1428 (2016)	Jafarian, Ahmad; Jafari, Raheleh; Al Qurashi, Maysaa Mohamed; Baleanu, Dumitru	0.98
74.	A Micro Magnetic Stimulator	REVISTA DE CHIMIE 67, 1534-1537 (2016)	Cordova Fraga, Teodoro; De La Roca Chiapas, Jose Maria; Baleanu, Dumitru; et al.	0.95
75.	Riesz Riemann-Liouville difference on discrete domains	CHAOS 26, Art. No.: 084308 (2016)	Wu, Guo-Cheng; Baleanu, Dumitru; Xie, He-Ping	2.04
76.	On exact traveling-wave solutions for local fractional Korteweg-de Vries equation	CHAOS 26, Art. No.: 084312 (2016)	Yang, Xiao-Jun; Tenreiro Machado, J. A.; Baleanu, Dumitru; et al.	2.04
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78.	Fractal calculus involving gauge function	COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION 37, 125-130 (2016)	Golmankhaneh, Alireza K.; Baleanu, Dumitru	2.83

79.	Dynamical analysis of fractional order model of immunogenic tumors	ADVANCES IN MECHANICAL ENGINEERING 8, Art. No.: 1687814016656704 (2016)	Arshad, Sadia; Baleanu, Dumitru; Huang, Jianfei; et al.	0.64
80.	On optical solitons of the non-local NLSE with time dependent coefficients	OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 10, 518-521 (2016)	Baleanu, Dumitru; Kilic, Bulent; Inc, Mustafa	0.41
81.	New solutions of the transport equations in porous media within local fractional derivative	PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE 17, 230-236 (2016)	Zhang, Yu; Baleanu, Dumitru; Yang, Xiao-Jun	1.73
82.	On the Laplace integral representation of multivariate Mittag-Leffler functions in anomalous relaxation	MATHEMATICAL METHODS IN THE APPLIED SCIENCES 39, 2983-2992 (2016)	Nigmatullin, Raoul R.; Khamzin, Airat A.; Baleanu, Dumitru	1
83.	Two analytical methods for time-fractional nonlinear coupled Boussinesq-Burger's equations arise in propagation of shallow water waves	NONLINEAR DYNAMICS 85, 699-715 (2016)	Kumar, Sunil; Kumar, Amit; Baleanu, Dumitru	3
84.	On two fractional differential inclusions	SPRINGERPLUS 5, Art. No.: 882 (2016)	Baleanu, Dumitru; Hedayati, Vahid; Rezapour, Shahram; et al.	0.98
85.	Laplace homotopy analysis method for solving linear partial differential equations using a fractional derivative with and without kernel singular	ADVANCES IN DIFFERENCE EQUATIONS, Art. No.: 164 (2016)	Fabian Morales-Delgado, Victor; Francisco Gomez-Aguilar, Jose; Yepez-Martinez, Huitzilin; Baleanu Dumitru; et al.	0.29
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88.	Electro-Acoustic Device for Hip Dysplasia Assessment	REVISTA DE CHIMIE 67, 1140-1143 (2016)	Perez Oliva, Huetzin; Cordova Fraga, Teodoro; Padilla Raygoza, Nicolas; Baleanu, Dumitru; et al.	0.95
89.	On comparison between iterative methods for solving nonlinear optimal control problems	JOURNAL OF VIBRATION AND CONTROL 22, 2281-2287 (2016)	Jafari, Hossein; Ghasempour, Saber; Baleanu, Dumitru	1.64
90.	Image encryption technique based on fractional chaotic time series	JOURNAL OF VIBRATION AND CONTROL 22, 2092-2099 (2016)	Wu, Guo-Cheng; Baleanu, Dumitru; Lin, Zhen-Xiang	1.64
91.	A fractional finite difference inclusion	JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS 20, 834-842 (2016)	Baleanu, Dumitru; Rezapour, Shahram; Salehi, Saeid	0.79
92.	Computational Structural Analysis for Substituted Nickel Phthalocyanines Preparation and characterization	REVISTA DE CHIMIE 67, 711-715 (2016)	Youssef, Tamer E.; Al Turaif, Hamad; Aftab, Wasim; Baleanu, Dumitru	0.95
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94.	On the Approximate Solutions of Local Fractional Differential Equations with Local Fractional Operators	ENTROPY 18, Art. No.: 150 (2016)	Jafari, Hossein; Jassim, Hassan Kamil; Tchier, Fairouz; Baleanu, Dumitru	1.74
95.	A geometric approach for solving the density-dependent diffusion Nagumo equation	ADVANCES IN DIFFERENCE EQUATIONS, Art. No.: 89 (2016)	Hashemi, Mir Sajjad; Darvishi, Elham; Baleanu, Dumitru	0.29
96.	Measurement of para-xylene diffusivity in zeolites and analyzing desorption curves using the Mittag-Leffler function	FRACTIONAL CALCULUS AND APPLIED ANALYSIS 19, 551-560 (2016)	Zaman, Sharif F.; Baleanu, Dumitru; Petras, Ivo	2.24
97.	A Novel Weak Fuzzy Solution for Fuzzy Linear System	ENTROPY 18 (2016)	Salahshour, Soheil; Ahmadian, Ali; Ismail, Fudziah; Baleanu, Dumitru	1.74
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100	Particular Solutions of the Confluent Hypergeometric Differential Equation by Using the Nabla Fractional Calculus Operator	ENTROPY 18, Art. No.: 49 (2016)	Yilmazer, Resat; Inc, Mustafa; Tchier, Fairouz; Baleanu, Dumitru	1.74
101	Stability analysis and controller design for the performance improvement of disturbed nonlinear systems using adaptive global sliding mode control approach	NONLINEAR DYNAMICS 83, 1557-1565 (2016)	Mobayen, Saleh; Baleanu, Dumitru	3
102	Residual power series method for time-fractional Schrodinger equations	JOURNAL OF NONLINEAR SCIENCES AND APPLICATIONS 9, 5821-5829 (2016)	Zhang, Yu; Kumar, Amit; Kumar, Sunil; Baleanu, Dumitru; et al.	1.17
103	On new traveling wave solutions of potential KdV and (3+1)-dimensional Burgers equations	JOURNAL OF NONLINEAR SCIENCES AND APPLICATIONS 9, 5029-5040 (2016)	Tchiera, Fairouz; Inan, Ibrahim E.; Ugurlu, Yavuz; Inc, Mustafa Inc; Baleanu, Dumitru; et al.	1.17
104	On generalized space of quaternions and its application to a class of Mellin transforms	JOURNAL OF NONLINEAR SCIENCES AND APPLICATIONS 9, 3898-3908 (2016)	Al-Omari, Shrideh Khalaf Qasem; Baleanu, Dumitru	1.17
105	A new application of the fractional logistic map	ROMANIAN JOURNAL OF PHYSICS 61, 1172-1179 (2016)	Huang, Lan-Lan; Baleanu, Dumitru; Wu, Guo-Cheng; et al.	1.39
106	On local fractional operators view of computational complexity - diffusion and relaxation defined on Cantor sets	THERMAL SCIENCE 20, S755-S767 (2016)	Yang, Xiao-Jun; Zhang, Zhi-Zhen; Machado, J. A. Tenreiro; Baleanu, Dumitru	0.93
107	New results for multidimensional diffusion equations in fractal dimensional space	ROMANIAN JOURNAL OF PHYSICS 61, 784-794 (2016)	Ma, Min; Baleanu, Dumitru; Gasimov, Yusif S.; et al.	1.39
108	Spectral method based on bernstein polynomials for coupled system of fredholm integral equations	APPLIED AND COMPUTATIONAL MATHEMATICS 15, 212-219 (2016)	Alipour, Mohsen; Baleanu, Dumitru; Karimi, Kobra	0.71
109	Applications of the extended fractional euler-lagrange equations model to freely oscillating dynamical systems	ROMANIAN JOURNAL OF PHYSICS 61, 350-359 (2016)	Agila, Adel; Baleanu, Dumitru; Eid, Rajeh; et al.	1.39
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111	Performance evaluation of matched asymptotic expansions for fractional differential equations with multi-order	BULLETIN MATHEMATIQUE DE LA SOCIETE DES SCIENCES MATHEMATIQUES DE ROUMANIE 59, 3-12 (2016)	Baleanu, Dumitru; Sayevand, Khosro	0.39
112	About the Existence Results of Fractional Neutral Integrodifferential Inclusions with State-Dependent Delay in Frechet Spaces	JOURNAL OF FUNCTION SPACES, Art. No.: 6165804 (2016)	Suganya, Selvaraj; Baleanu, Dumitru; Selvarasu, Siva; et al.	0.42
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114	Digital Processing of Thermographic Images for Medical Applications	REVISTA DE CHIMIE 67, 53-56 (2016)	Guzman-Cabrera, Rafael; Guzman-Sepulveda, Jose Rafael; Gonzalez Parada, Adrian; Baleanu, Dumitru; et al.	0.95
115	Optical soliton solutions of the pulse propagation generalized equation in parabolic-law media with space-modulated coefficients	OPTIK 127, 1056-1058 (2016)	Inc, Mustafa; Kilic, Bulent; Baleanu, Dumitru	0.74
116	On Coupled Systems of Time-Fractional Differential Problems by Using a New Fractional Derivative	JOURNAL OF FUNCTION SPACES, Art. No.: 4626940 (2016)	Alsaedi, Ahmed; Baleanu, Dumitru; Etemad, Sina; et al.	0.42
117	Regions with similar temporal evolution from Earth Observation Big Data. Application to water turbidity dynamics	Remote Sensing Letters, TRES-LET-2016-0457.R1	Cucu-Dumitrescu, C.,Constantin, S	1.487
118	Time calibration with atmospheric muon tracks in the ANTARES neutrino telescope	Astroparticle Physics, 78, 43-52, 2016	S. Adrían-Martínez, ..., L. Caramete, ..., G.E. Păvălaș, ..., V. Popa et al. (The ANTARES Collaboration)	3.425
119	Optical and X-ray early follow-up of ANTARES neutrino alerts	Journal of Cosmology and Astroparticle Physics, 2, 062:1-30, 2016	S. Adrían-Martínez, ..., L. Caramete, ..., G.E. Păvălaș, ..., V. Popa et al. (The ANTARES Collaboration)	5.634

120	Murchison widefield array limits on radio emission from antares neutrino events	The Astrophysical Journal Letters, 820, L24:1-7, 2016	S. Adrían-Martínez, ..., L. Caramete, ..., G.E. Păvălaș, ..., V. Popa et al. (The ANTARES Collaboration), The MWA, ROTSE, TAROT Collaborations	5.487
121	The first combined search for neutrino point-sources in the southern hemisphere with the antares and icecube neutrino telescopes	The Astrophysical Journal, 823, 65:1-12, 2016	S. Adrían-Martínez, ..., L. Caramete, ..., G.E. Păvălaș, ..., V. Popa et al. (The ANTARES Collaboration), The IceCube Collaboration	5.909
122	A search for Secluded Dark Matter in the Sun with the ANTARES neutrino telescope	Journal of Cosmology and Astroparticle Physics, 4, 016:1-12, 2016	S. Adrían-Martínez, ..., L. Caramete, ..., G.E. Păvălaș, ..., V. Popa et al. (The ANTARES Collaboration)	5.634
123	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube	Physical Review D, 93, 122010:1-15, 2016	S. Adrían-Martínez, ..., L. Caramete, ..., G.E. Păvălaș, ..., V. Popa et al. (The ANTARES Collaboration), The IceCube, LIGO Scientific and Virgo Collaborations	4.506
124	Limits on dark matter annihilation in the sun using the ANTARES neutrino telescope	Physics Letters B, 759, 69-74, 2016	S. Adrían-Martínez, ..., L. Caramete, ..., G.E. Păvălaș, ..., V. Popa et al. (The ANTARES Collaboration)	4.787
125	Constraints on the neutrino emission from the Galactic Ridge with the ANTARES telescope	Physics Letters B, 760, 143-148, 2016	S. Adrían-Martínez, ..., L. Caramete, ..., G.E. Păvălaș, ..., V. Popa et al. (The ANTARES Collaboration)	4.787
126	The prototype detection unit of the KM3NeT detector	European Physical Journal C, 76, 54:1-12, 2016	S. Adrían-Martínez, ..., L. Caramete, ..., G.E. Păvălaș, ..., V. Popa et al. (The KM3NeT Collaboration)	4.912
127	KM3NeT 2.0 – Letter of Intent for ARCA and ORCA	Journal of Physics G: Nuclear and Particle Physics, 43, 084001:1-131, 2016	S. Adrían-Martínez, ..., L. Caramete, ..., G.E. Păvălaș, ..., V. Popa et al. (The KM3NeT Collaboration)	2.488
128	A method to stabilise the performance of negatively fed KM3NeT photomultipliers	Journal of Instrumentation, 11, P12014:1-8, 2016	S. Adrían-Martínez, ..., L. Caramete, ..., G.E. Păvălaș, ..., V. Popa et al. (The KM3NeT	1.310

			Collaboration)	
129	Search for magnetic monopoles with the MoEDAL prototype trapping detector in 8 TeV proton-proton collisions at the LHC	Journal of High Energy Physics, 08, 067: 1-23, 2016	B. Acharya, ..., D. Felea, ..., G.E. Păvălaș, ..., V. Popa et al. (The Moedal Collaboration)	6.023
130	X-max(mu) vs. N-mu from Extensive Air Showers as estimator for the mass of primary UHECR's. Application for the Pierre Auger Observatory.	AIP Conference Proceedings, vol. 1645, pg. 286-290, anul 2015.	Nicusor Arsene, Octavian Sima.	0
131	Quantum production of black holes at colliders.	EUROPEAN PHYSICAL JOURNAL C, vol. 76, pg. 1-8, anul 2016.	Nicusor Arsene, Roberto Casadio. Octavian Micu.	4.912
132	Simulation study of the correlation (X-max(mu), N-mu) in view of obtaining information on primary mass of the UHECRs.	ASTROPARTICLE PHYSICS, vol. 83, pg. 13-20, anul 2016.	Nicusor Arsene, Octavian Sima, Andreas Haungs, Heinigerd Rebel.	3.425
133	Planetary Radio Interferometry and Doppler Experiment (PRIDE) technique: A test case of the Mars Express Phobos fly-by	Astronomy & Astrophysics, Volume 593, id.A34, 10 pp, 2016	D.A. Duev, S.V. Pogrebenko, G. Cimo, G. Molera Calves, T.M. Bocanegra Bahamon, L.I. Gurvits, M.M. Kettenis, J. Kania, V. Tudose, P.Rosenblatt, J.C. Marty, V. Lainey, P. de Vicente, J. Quick, M. Nickola, A. Neidhardt, G. Kronschnabl, C. Ploetz, R. Haas, M. Lindqvist, A. Orlati, A.V. Ipatov, M.A. Kharinov, A.G. Mikhailov, J.E.J. Lovell, J.N. McCallum, J. Stevens, S.A. Gulyaev, T. Natush, S. Weston, W.H. Wang, B. Xia, W.J. Yang, L.F. Hao, J. Kallunki, O. Witasse	5.19
134	Radio polarimetry as a probe of unresolved jets: the 2013 outburst of XTE J1908+094	Monthly Notices of the Royal Astronomical Society, Volume 451, Issue 4, p.3975-3985, 2015	P.A. Curran, J.C.A. Miller-Jones, A.P. Rushton, D.D. Pawar, G.E. Anderson, D. Altamirano, H.A. Krimm, J.W. Broderick, T.M. Belloni, R.P. Fender, E.G. Koerding, D. Maitra, S. Markoff, S. Migliari, C.	4.95

			Rumsey, M.P. Rupen, D.M. Russell, T.D. Russell, C.L. Sarazin, G.R. Sivakoff, R. Soria, A.J. Tetarenko, D. Titterington, V. Tudose	
135	Radio monitoring of the hard state jets in the 2011 outburst of MAXI J1836-194	Monthly Notices of the Royal Astronomical Society, Volume 450, Issue 2, p.1745-1759, 2015	T.D. Russell, J.C.A. Miller-Jones, P.A. Curran, R. Soria, D. Altamirano, S. Corbel, M. Coriat, A. Moin, D.M. Russell, G.R. Sivakoff, T.J. Slaven-Blair, T.M. Belloni, R.P. Fender, S. Heinz, P.G. Jonker, H.A. Krimm, E.G. Koerding, D. Maitra, S. Markoff, M. Middleton, S. Migliari, R.A. Remillard, M.P. Rupen, C.L. Sarazin, A.J. Tetarenko, M.A.P. Torres, V. Tudose, A.K. Tzioumis	4.95
136	Search for magnetic monopoles with the MoEDAL prototype trapping detector in 8 TeV proton-proton collisions at the LHC	Journal of High Energy Physics; Issue 08; Article Number 067; pp. 1–25; 2016	MoEDAL Collab.	6.023
137	Inner horizon of the quantum Reissner-Nordstrom black holes	JOURNAL OF HIGH ENERGY PHYSICS Issue: 5 Article Number: 096	Casadio, Roberto; Micu, Octavian; Stojkovic, Dejan	6.02
138	Horizon wave-function and the quantum cosmic censorship	PHYSICS LETTERS B Volume: 747 Pages: 68-72	Casadio, Roberto; Micu, Octavian; Stojkovic, Dejan	4.79
139	Thermal BEC Black Holes	ENTROPY Volume: 17 Issue: 10 Pages: 6893-6924	Casadio, Roberto; Giugno, Andrea; Micu, Octavian; Orlandi, Alessio	1.74
140	HORIZON WAVE-FUNCTION: FROM PARTICLES TO BLACK HOLES	ROMANIAN REPORTS IN PHYSICS Volume: 68 Issue: 3 Pages: 923-934	Casadio, Roberto; Micu, Octavian; Scardigli, Fabio	1.37
141	Horizon quantum mechanics: A hitchhiker's guide to quantum black holes	INTERNATIONAL JOURNAL OF MODERN PHYSICS D Volume: 25 Issue: 2 Article Number: 1630006	Casadio, Roberto; Giugno, Andrea; Micu, Octavian	1.96

142	Quantum production of black holes at colliders	EUROPEAN PHYSICAL JOURNAL C Volume: 76 Issue: 7 Article Number: 384	Arsene, Nicusor; Casadio, Roberto; Micu, Octavian	4.91
143	Planck 2015 results I. Overview of products and scientific results	ASTRONOMY & ASTROPHYSICS Volume: 594 Article Number: A1 Published: OCT 2016	Adam, R.; Ade, P. A. R.; Aghanim, N.; et al. Group Author(s): Planck Collaboration	5.185
144	Planck 2015 results XVI. Isotropy and statistics of the CMB	ASTRONOMY & ASTROPHYSICS Volume: 594 Article Number: Al6 Published: OCT 2016	Ade, P. A. R.; Aghanim, N.; Akrami, Y.; et al. Group Author(s): Planck Collaboration	5.185
145	XXIV. Cosmology from Sunyaev-Zeldovich cluster counts	ASTRONOMY & ASTROPHYSICS Volume: 594 Article Number: A24 Published: OCT 2016	Ade, P. A. R.; Aghanim, N.; Arnaud, M.; et al. Group Author(s): Planck Collaboration	5.185
146	Planck 2015 results XVIII. Background geometry and topology of the Universe	ASTRONOMY & ASTROPHYSICS Volume: 594 Article Number: A18 Published: OCT 2016	Ade, P. A. R.; Aghanim, N.; Arnaud, M.; et al. Group Author(s): Planck Collaboration	5.185
147	Planck 2015 results XIX. Constraints on primordial magnetic fields	ASTRONOMY & ASTROPHYSICS Volume: 594 Article Number: A19 Published: OCT 2016	Ade, P. A. R.; Aghanim, N.; Arnaud, M.; et al. Group Author(s): Planck Collaboration	5.185
148	Planck 2015 results XIV. Dark energy and modified gravity	ASTRONOMY & ASTROPHYSICS Volume: 594 Article Number: A14 Published: OCT 2016	Ade, P. A. R.; Aghanim, N.; Arnaud, M.; et al. Group Author(s): Planck Collaboration	5.185
149	Planck 2015 results XV. Gravitational lensing	ASTRONOMY & ASTROPHYSICS Volume: 594 Article Number: A15 Published: OCT 2016	Ade, P. A. R.; Aghanim, N.; Arnaud, M.; et al. Group Author(s): Planck Collaboration	5.185
150	XXI. The integrated Sachs-Wolfe effect	ASTRONOMY & ASTROPHYSICS Volume: 594 Article Number: A21 Published: OCT 2016	By: Ade, P. A. R.; Aghanim, N.; Arnaud, M.; et al. Group Author(s): Planck Collaboration	5.185
151	Planck 2015 results XX. Constraints on inflation	ASTRONOMY & ASTROPHYSICS Volume: 594 Article Number: A20 Published: OCT 2016	By: Ade, P. A. R.; Aghanim, N.; Arnaud, M.; et al. Group Author(s): Planck Collaboration	5.185

152	Planck 2015 results XVII. Constraints on primordial non-Gaussianity	ASTRONOMY & ASTROPHYSICS Volume: 594 Article Number: A17 Published: OCT 2016	By: Ade, P. A. R.; Aghanim, N.; Arnaud, M.; et al. Group Author(s): Planck Collaboration	5.185
153	Planck 2015 results XIII. Cosmological parameters	ASTRONOMY & ASTROPHYSICS Volume: 594 Article Number: A13 Published: OCT 2016	By: Ade, P. A. R.; Aghanim, N.; Arnaud, M.; et al. Group Author(s): Planck Collaboration	5.185
154	Planck intermediate results XXXII. The relative orientation between the magnetic field and structures traced by interstellar dust	ASTRONOMY & ASTROPHYSICS Volume: 586 Article Number: A135 Published: FEB 2016	Ade, P. A. R.; Aghanim, N.; Arnaud, M.; et al. Group Author(s): Planck Collaboration	5.185
155	Planck intermediate results XXX. The angular power spectrum of polarized dust emission at intermediate and high Galactic latitudes	ASTRONOMY & ASTROPHYSICS Volume: 586 Article Number: A133 Published: FEB 2016	Adam, R.; Ade, P. A. R.; Aghanim, N.; et al. Group Author(s): Planck Collaboration	5.185
156	Planck intermediate results XXIX. All-sky dust modelling with Planck, IRAS, and WISE observations	ASTRONOMY & ASTROPHYSICS Volume: 586 Article Number: A132 Published: FEB 2016	Ade, P. A. R.; Aghanim, N.; Alves, M. I. R.; et al. Group Author(s): Planck Collaboration	5.185
157	Planck intermediate results XXXI. Microwave survey of Galactic supernova remnants	ASTRONOMY & ASTROPHYSICS Volume: 586 Article Number: A134 Published: FEB 2016	Arnaud, M.; Ashdown, M.; Atrio-Barandela, F.; et al. Group Author(s): Planck Collaboration	5.185
158	Transport and entry of plasma clouds/jets across transverse magnetic discontinuities: Three-dimensional electromagnetic particle-in-cell simulations	Journal of Geophysical Research: Space Physics	Gabriel Voitcu and Marius Echim	3.318
159	Turbulence-generated Proton-scale Structures in the Terrestrial Magnetosheath	The Astrophysical Journal Letters, Volume 819, Issue 1, article id. L15, 6 pp. (2016)	Vörös, Z Yordanova, E; Echim, M M.; Consolini, G; Narita, Y	5.487
160	Effect of data gaps: Comparison of different spectral analysis methods	Ann. Geophys., 34, 437-449 (2016)	Munteanu, C., Negrea, C., Echim, M. and Mursula, K.	1.731
161	Characteristics of acoustic	J. Geophys. Res.	Negrea, C., N. Zabotin,	3.318

	gravity waves obtained from Dynasonde data	Space Physics, 121, 3665–3680 (2016)	T. Bullett, T. Fuller-Rowell, T.-W. Fang, and M. Codrescu	
162	Mean spectral characteristics of acoustic gravity waves in the thermosphere-ionosphere determined from Dynasonde data	Radio Sci., 51, (2016)	Negrea, C., and N. A. Zabotin	1.75
163	Ionospheric response to tidal waves measured by dynasonde techniques	. Geophys. Res. Space Physics, 121, 602–611 (2016)	Negrea, C., N. Zabotin, T. Bullett, M. Codrescu, and T. Fuller-Rowell	3.318
164	On the role of ion-scale whistler waves in space and astrophysical plasma turbulence	Ann. Geophys., 34, 975-984, doi:10.5194/angeo-34-975-2016, 2016	H. Comisel, Y. Nariyuki, Y. Narita, and U. Motschmann	1.731
165	Simulations and Test Results of Large Area Continuous Position Sensitive Diamond Detectors	Diamond and Related Materials, 65 (2016) 115-124	M. Ciobanu , M. Pomorski, E.Berdermann, C. Bunescu, H. Comisel, V. Constantinescu, M. Kiš, O. Marghitu, M. Träger, K-H. Voss and P. Wieczorek	1.910
166	Development of large area diamond detectors for time of flight measurements of relativistic heavy ions for the Super-FRS	Journal of Physics D: Appl. Phys., 49, 215105, 2016	Schirru, F.; Nociforo, C.; Kis, M.; Ciobanu, M.; Fruehauf, J.; Kratz, A. ; Kurz, N. ;Szczepanczyk, B. ; Traeger, M. ; Visinka, R	2.721
ISS				
Numar de lucrari in reviste de specialitate cotate ISI:				**166**
Factor de impact cumulat al lucrarilor cotate ISI:				**523.469**

TOTAL GENERAL INFLPR+ISS ISI=555.575+523.469 = 1079.044

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

Nr. Crt.	Titlu	Revista oficiala	Inventatori/ Titulari	Solic./ acordat
1.	Iradieri cu laseri de putere TW/PW	OSIM A 00698 /2016	Lungu Petrica Cristian, Porosnicu Corneliu, Jepu Ionut, Lungu Mihail, Banici Romeo, Marcu Aurelian, Luculescu Catalin, Ursescu D.	Solicitat
2.	Generator de impulsuri ultrarapide pentru simularea pulsurilor electromagnetice asociate interacției radiației laser de mare putere cu materia	OSIM A 00592/ 2016	M. Ganciu, O. Stoican, A. Marcu, B. Butoi, M. Serbanescu, B. Mihalcea, A. Groza, C. Diplasu, P. Dinca, A. Surmeian/ INFLPR	Solicitat
3.	Rețeta de crestere a aderenței acoperirilor pe baza de PEG pe suprafața implanturilor din titan obtinuțe din soluții apoase	OSIM A 00955/ 2016	Socol G, Grumezescu V., Stanculescu A., Socol M.	Solicitat
4.	Plant for nanostructure synthesis by laser pyrolysis from solid precursors	OSIM 3/241/ 29.11.2016	Gavrila-Florescu Lavinia, Popovici Ernest, Morjan Ion	Acordat
5.	Sistem cu duza gaz multi-jet pentru generarea de armonici ale radiației laser	OSIM A 00918/ 2016	URSESCU Daniel	Solicitat
6.	Procedeu de fabricație şi produs sticle boro-fosfatice, continând oxid de litiu, oxid de aluminiu şi oxid de zinc, dopate cu pamânturi rare şi metale tranzitionale şi post-tranzitionale, cu proprietăți magneto-optice.	OSIM A 01008/ 2016	Sava Bogdan Alexandru, Boroica Lucica, Elisa Mihail, Ulieru Dumitru, Craciun Doina	Solicitat
7.	Procedeu de proiectare a unor sticle optice cu constanta Verdet nulă	OSIM A 00121/ 2016	Leca Aurel, Sofronie Mihaela-Iuliana, Kuncser Victor Eugen, Valeanu Mihaela Cristina, Elisa Mihail, Sava Bogdan Alexandru, Beldiceanu Anca	Solicitat

8.	Modulator spațial de lumină complet optic bazat pe ADN functionalizat	OSIM A/01038 (2016)	A. Petris, V. I. Vlad, P. Gheorghe, I. Rau, F. Kajzar	Solicitat
9.	Bujie cu laser pentru un motor cu ardere	OSIM A 0028/ 2016	A. Birtas, N. Boicea, T. Dascalu, N. Pavel, G. Salamu, O.-V. Grigore	Solicitat
10.	A laser spark plug for a combustion engine	INPI - Institut National de la Propriété Industrielle, Numéro de soumission: 000347665 / 18.05.2016, France	A. Birtas, N. Boicea, T. Dascalu, N. Pavel, G. Salamu, O.-V. Grigore	Solicitat
11.	Growing carbon nanowalls on substrate of implantable medical device used to treat cardiac disease, comprises providing substrate in processing chamber and evacuating it to processing pressure, entering gas, providing radicals and adsorbing	Derwent Primary Accession Number: 2016-23836X [34] (2016).	G. Dinescu, I. Junkar, K. Kleinschek, S, Modic, M. Mozetic, D. Stoica, A. Vesel, S. I. Vizireanu	Soilicitat
12.	Generator de impulsuri ultrarapide pentru simularea pulsurilor electromagnetice asociate interactiei radiatiei laser de mare putere cu materia	A 00592/ 2016	M. Ganciu, O. Stoican, A. Marcu, B. Butoi, M. Serbanescu, B. Mihalcea, A. Groza, C. Diplasu, P. Dinca, A. Surmeian,	Solicitat
13.	Metoda de obtinere a unui electrod transparent din ZnO pentru celule solare prin arc termoionic	12830 - 2016	Lungu Petrica Cristian, Porosnicu Corneliu, Jepu Ionut, Anghel Alexandru, Chiru Petrica, Lungu Ana Mihaela, Ticos Catalin, Zaroschi Valer, Burada Marian, Soare Vasile, Ghenescu Veta, Antohe Stefan	Acordat
14.	Iradieri cu laseri de putere TW/PW	A00698 - 2016	Lungu Petrica Cristian, Porosnicu Corneliu, Jepu Ionut, Lungu Mihail, Banici Romeo, Marcu Aurelian, Luculescu Catali, Ursescu Daniel	Soilicitat

15.	Iradieri cu laseri de putere TW/PW	EP 16464009 – 14.10.2016	Lungu Petrica Cristian, Porosnicu Corneliu, Jepu Ionut, Lungu Mihail, Banici Romeo, Marcu Aurelian, Luculescu Catali, Ursescu Daniel	Soilicitat
16.	Proces electrochimic de obținere filme subțiri CIS pentru aplicații fotovoltaice	127532 - 2016	Soare V., Burada M., Mitrica D. Constantin I.t, Antohe Stefan, Ion L., Lungu P., Porosnicu C. Ghenescu M., Ghenescu V.	Soilicitat
17.	Dispozitiv compact, pentru maximizarea volumului de plasmă rece produsa în aer, în descarcari electrice cu bariere de dielectric	OSIM	N. Georgescu	Solicitat
18.	Procedeu de curatire a suprafetelor în gaze la presiune scazută cu jet de plasmă pulsată	OSIM A 00427/ 2016	C.M. Ticos, A. Scurtu, D. Ticos	solicitat
19	Obținere şi utilizare materiale polimerice cu însusiri floculante pentru înbunatatirea parametrilor de calitate a apelor de suprafată şi reziduale	OSIM A 00949/ 2016	M.R. Nemteanu	solicitat

INFLPR	
Brevete Solicitate:	**17**
Brevete Acordate:	**2**

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

Nr. Crt.	Produs/serviciu/ tehnologie	Date tehnice	Domeniu de utilizare
1.	Proiectare si realizare sursa de plasma cu electrozi circulari exteriori (PRODUS)	Realizarea, testarea şi mentenanţa componentelor optice şi materialelor dedicate funcţionării în condiţii extreme (radiaţii ultraintense laser sau spaţiale, reactoare de fuziune)	Optica
2.	Proiectare si realizare sursa de plasma cu electrod de putere central (PRODUS)	Realizarea, testarea şi mentenanţa componentelor optice şi materialelor dedicate funcţionării în condiţii extreme (radiaţii ultraintense laser sau spaţiale, reactoare de fuziune)	
3.	Dezvoltare proceduri nepoluante si configuratii de surse de plasma in contact cu diferite lichide (TEHNOLOGIE)		Tratarea cu plasma a lichidelor
4.	Metoda de sinteza prin tehnici cu plasma de structuri multicomponente cu alternanta de proprietati (TEHNOLOGIE)		Nanotehnologie
5.	Modele experimentale de camere de tratare a oualor pentru decontaminare cu plasme reci atmosferice. (TEHNOLOGIE)	Posibilitatea tratarii directe sau indirecte a 6-12 oua simultan, in atmosfera de heliu-oxigen sau in aer.	Inactivarea microorganismelor de pe suprafata oualor cu ajutorul plasmelor reci atmosferice
6.	Instalatie model demonstrativ pentru maximizarea gradului de decontaminare a oualor. (PRODUS)	In conditii experimentale care maximizeaza efectul bactericid, populatia de Salmonella de pe suprafata oualor a fost distrusa in proportie de 99,992 % la tratamentul dircet de 5 minute, respectiv 99,995 % la tratamentul indirect de 15 minute. Angajamentul din Proiect era un procent de distrugere de 99,5 %.	Inactivarea microorganismelor de pe suprafata oualor cu ajutorul plasmelor reci atmosferice
7.	Tehnologii de contaminare controlata a oualor si de masurare a gradului de decontaminare.	Contaminare controlata a oualor cu populatii de Salmonella de pana la 10^8 microorganisme/ou. Masuratori ale microorganimelor viabile ramase dupa tratamentul cu plasma pana la limita inferioara de 100 microrganisme/ou.	Inactivarea microorganismelor de pe suprafata oualor cu ajutorul plasmelor reci atmosferice

8.	Dispozitiv compact, pentru maximizarea volumului de plasma rece produsa in aer, in descarcari electrice cu bariere de dielectric. (PRODUS)	Dimensiuni de gabarit de peste trei ori mai mici in cazul tratarii indirecte in aer.	Inactivarea microorganismelor de pe suprafata oualor cu ajutorul plasmelor reci atmosferice
9.	Iradieri si interpretari (SERVICIU)	Expuneri in fascicul de electroni de 6 MeV a unor mostre folosite in fabricarea aripilor Comanda din 21.09.2016, INCD Turbomotoare COMOTI- 5200 RON (fara TVA)	Aerospatial
10.	Reparatie Accelerator (SERVICIU)	Reparatie accelerator electroni 8 MeV Linatron 2000 Comanda din 15.12.2016 cu Walter Tosto WTB SRL, 3360 RON (fara TVA)	Defectoscopie industriala
11.	Reparatie Accelerator (SERVICIU)	Remediere defectiune la accelerator de electroni 8 MeV Linatron 2000 Comanda din 14.09.2016 cu Walter Tosto WTB SRL, 3360 RON (fara TVA)	Defectoscopie industriala

INFLPR	
Produse:	**4**
Servicii:	**3**
Tehnologii:	**4**

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

Nr. Crt.	Titlu	Revista, vol., pg., anul	Autori
1.	Experimental and theoretical investigation of the effect of laser parameters on laser ablation and laser-induced plasma formation	Proceedings of SPIE, vol 9899 (2016)	Stancalie A, Ciobanu S, Sporea D
2.	Long Period Gratings Written in Fluorine-doped Fibers by Electric Arc Discharge Technique	Proceedings of SPIE, vol 9916 (2016)	Ranjan R, Esposito F, Iadicicco A, Stancalie A, Sporea D, Campopiano S
3.	Electron beam irradiation of materials and components to be used in mid-IR spectroscopy	SPIE Photonics Europe, pp. 98990O-98990O. International Society for Optics and Photonics, 2016.	Sporea Dan, Laura Mihai, Adelina Sporea, Gabriela Crăciun, and Elena Mănăilă
4.	Optical and THz reflectance investigations of organic solar cells	SPIE Photonics Europe, pp. 989814-989814. International Society for Optics and Photonics, 2016.	Sporea Dan, Laura Mihai, Adelina Sporea, and Yulia Galagan
5.	On-line monitoring of gamma irradiated perfluorinated polymer optical fiber	SPIE Photonics Europe, pp. 98861Q-98861Q. International Society for Optics and Photonics, 2016.	Sporea Dan, Laura Mihai, Daniel Neguţ, Pavol Stajanca, and Katerina Krebber
6.	Hollow-core waveguide for single-mode laser beam propagation in the spectral range of 3.7-7.3 µm	SPIE OPTO, pp. 97552M-97552M. International Society for Optics and Photonics, 2016.	Patimisco, P., L. Mihai, M. Giglio, A. Sampaolo, P. P. Calabrese, J. M. Kriesel, D. Sporea, G. Scamarcio, F. K. Tittel, and V. Spagnolo
7.	Long period grating response to gamma radiation	Proc. SPIE 9886, Micro-Structured and Specialty Optical Fibres IV, 98861P	D. Sporea; A. Stăncalie; D. Neguţ; S. Delepine-Lesoille, L. Lablonde
8.	Perfluorinated polymer optical fiber for gamma radiation monitoring	Proc. Sixth European Workshop on Optical Fibre Sensors (EWOFS'2016), pp. 99160H-99160H	P. Stajanca, L. Mihai, D. Sporea, D. Negut, K. Krebber
9.	Gamma radiation influence on silica optical fibers measured by optical backscatter reflectometry and Brillouin sensing technique	Proc. Sixth European Workshop on Optical Fibre Sensors (EWOFS'2016), pp. 99162J-99162J	A. Wosniok, D. Sporea, D. Neguţ, K. Krebber
10.	Assessment of mid-IR components for spaceborne instrumentation: Radiation tests	Metrology for Aerospace (MetroAeroSpace), 2016 IEEE, pp. 308-313	D. Sporea, L. Mihai, A. Sporea, D. Ighigeanu, D. Neguţ
11.	Proton irradiation tests of quantum cascade lasers	2016 International Conference on Advanced Materials for Science and Engineering (ICAMSE), Tainan, Taiwan, 2016, pp. 695-698. doi:	D. Sporea ; L. Mihai ; M. Straticiuc ; I. Burducea ; P. Bleotu

		10.1109/ICAMSE.2016.7840363	
12.	Test of optical fibers under electron beam irradiation	Acceptata spre publicare in IEEE Xeplore Digital Library	D. Sporea, A. Sporea, C. Oproiu
13.	Enhanced Gamma Radiation Effect in Bi/Er Co-Doped Optical Fibre by Co-Doping Yb	Asia Communications and Photonics Conference 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper AF2A.135.	B. Yan, Y. Luo, D. Sporea, L. Mihai, D. Negut, M. Ding, C. Wang, J. Wen, X. Sang, and G. Peng
14.	Stepping up theoretical investigations of ultrashort and intense laser pulses with overdense plasmas. Combining particle-in-cell simulations with machine learning and big data,	IEEE Xplore Digital Library, 7367424	A. Mihailescu
15.	Impactul metalelor grele asupra plantelor	Revista Stiinta & Tehnica, Nr. 61 Noiembrie, pp 104-107 (2016)	C. Popa (Achim), M. Bercu (Petrus), A.M. Bratu and D. C. Dumitras
16.	Bioactive glass thin films synthesized by advanced pulsed laser techniques	Journal of Physics: Conference Series, 764 (2016) 012020	N. Mihailescu, G. E Stan, C. Ristoscu, M. Sopronyi, I. N. Mihailescu
17.	The temperature field distributions in a Fe target under low power laser irradiation and low heat transfer coefficient conditions: experiments versus simulations	OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 10 Issue: 1-2 Pages: 29-31 Published: JAN-FEB 2016	Buca, A; Damian, V; Oane, M; Medianu, RV; Mihailescu, IN; Popescu-Pelin, G
18.	Orientation of the nanocrystallites in AlN thin film determined by FTIR spectroscopy	Journal of Physics Conference Series, 682 (2016) 012024	Antonova, K; Szekeres, A; Duta, L; Stan, GE Mihailescu, N; Mihailescu, IN
19.	”One step synthesis of tin-carbon core-shell nanoparticles using laser pyrolysis technique”	U.P.B. Sci. Bull. B 78 , 43-56	C. Fleaca, F. Dumitrache, E. Dutu, C. Luculescu, A.-M. Niculescu, A. Ilie, E. Vasile
20.	Laser-induced jetting and controlled droplet formation	Optofluid. Microfluid. Nanofluid.; 3(1):44–48 (2016)	M.L. Pascu, I.R. Andrei, J.-P. Delville,
21.	Detection of epidermoid squamous-cell carcinoma by laser induced autofluorescence – preliminary results	Romanian Journal of Military Medicine, CXIX:2; 40-47 (2016)	R. Costin, T. Tozar, V. Zainea, R. Pirvulescu, I.R. Andrei, R. Hainăroșie
22.	Heat Transfer Characteristics of a Two-Phase Closed Thermosyphons Using Nanofluids Based on SiC Nanoparticles	International Journal of Heat and Technology 34, S199-S204	Huminic G, Huninic A, Fleaca C, Dumitrache F
23.	Nanocomposite dodecylsulfate-modified Mg-Al layered double hydroxide thin films deposited via laser technique	Advanced Manufacturing, Electronics and Microsystems TechConnect Briefs 2016, pp. 31 - 35	A. Vlad, R. Birjega, A. Matei, M. Dumitru, M. Dinescu, R. Zavoianu, O.D. Pavel, M.C. Corobea

24.	Spectroscopic analysis of some heavy metals on the contaminated vegetation	Editata de Editura Universitatii Transilvania , Brasov (2016); Chapter I in "Biophysics for Biomedical and Evironmental Sciences", ISBN 978-606-19-1768-7, Ed Florescu Monica	C. Popa and M. Petrus
25.	Food safety test by laser photoacoustic spectroscopy assessment	Editata de Editura Universitatii Transilvania , Brasov (2016); Chapter II in "Biophysics for Biomedical and Evironmental Sciences", ISBN 978-606-19-1768-7, Ed. Florescu Monica	C. Popa, M. Petrus, A.M. Bratu, M. Patachia, S. Banita, D.C. Dumitras
26.	"Biopolymer thin films synthesized by advanced pulsed laser techniques"	Chapter 4 in "Recent Advances in Biopolymers", INTECH (2016), Ed. Farzana Parveen, ISBN 978-953-51-4613-1, pp. 73 - 104	Emanuel AXENTE, Felix SIMA, Carmen RISTOSCU, Natalia MIHAILESCU, Ion N. MIHAILESCU,
27.	"Bioresponsive surfaces and interfaces fabricated by innovative laser approaches"	Chapter 12 in Advanced Materials Interfaces (Advanced Materials Book Series), Editor: Ashutosh Tiwari, Hirak K. Patra and Xuemei Wang, Scrivener Publishing LLC 2016, ISBN: 978-1-119-24275-8, pp.427 - 462	F. Sima, E. Axente, C. Ristoscu, O. Gallet, K. Anselme, I.N. Mihailescu,
28.	"Pulse laser deposited TiO2 based films: Synthesis, electronic structures and photocatalytic activity"	Chapter 5 in "Semiconductor Photocatalysis - Materials, Mechanisms and Applications", InTech, Ed. Wenbin Cao, ISBN 978-953-51-2484-9 (2016) pp. 135-161	Oksana Linnik, Nataliia Chorna, Nataliia Smirnova, Anna Eremenko, Oleksandr Korduban, Nicolaie Stefan, Carmen Ristoscu, Gabriel Socol, Marimona Miroiu, Ion N. Mihailescu,
29.	"Laser thin films deposition and characterization for biomedical applications"	Chapter 3 in "Laser Surface Modification of Biomaterials, Techniques and Applications"; 1st Edition; Editor: R Vilar, Release Date: 15 Apr 2016, Imprint: Woodhead Publishing, Print Book ISBN: 9780081008836, pp.77-125, DOI: 10.1016/B978-0-08-100883-6.00003-4	F. Sima, C. Ristoscu, L. Duta, O. Gallet, K. Anselme, I.N. Mihailescu
30.	"Composite coatings based on renewable resources synthesized by advanced laser techniques", Mihailescu,	Chapter 6 in "Composites from Renewable and Sustainable Materials", InTech, ISBN 978-953-51-2793-2, Edited by: Matheus Poletto, pp. 107 – 132 (2016)	A. Visan, C. Ristoscu, I. N.
31.	Periodic Surface Structures Induced on Dental Enamel by CO2	Chapter 6 in A. Reimer (Ed.), Horizons in World Physics.	I. N. Mihailescu, E. A. Preoteasa, and E. S.

	Laser 10.6 µm Radiation: A Novel Effect with Potential Applications in Dentistry	Volume 289, Nova Publishing, 2016, pp. 113-154, ISBN: 978-1-53610-183-6	Preoteasa,
32.	"Lasers, Plasma and Radiation Physics - the State of the Art - Research Collection"	InTech ISBN 978-953-51-2304-0, 2016	Ion Mihailescu et al.,
33.	"Functional metal oxide thin films grown by pulsed laser deposition",	Crystalline and Non-crystalline Solids, Ed. P. Mandracci, ISBN 978-51-2446-7	M. Filipescu, A. Palla Papavlu, M. Dinescu
34.	Chapter title: Smart coatings obtained by matrix assisted pulsed laser evaporation based on thermo responsive polymers for biological applications	Modern Technologies for Creating the Thin-film Systems and Coatings	Dinca Valentina
35.	Smart coatings obtained by matrix assisted pulsed laser evaporation based on thermo responsive polymers for biological applications	Book title: Modern Technologies for Creating the Thin-film Systems and Coatings ISBN 978-953-51-5056-5	L. Rusen, V. Dinca, C. Mustaciosu, M. Icriverzi, L.E.Sima, A. Bonciu, N. Serban, S. Brajnicov, N. Dumitrescu, A. Rosean, M. Dinescu
36.	Carbon Nanomaterials Sourcebook: Nanoparticles, Nanocapsules, Nanofibers, Nanoporous Structures, and Nanocomposites,	Volume II [chapter Hybrids/ Composites - Transition Metal/Carbon Nanocomposites], CRC Press – Taylor and Francis Group (edited by Klaus B. Sattler), 2016, 603-624, ISBN: 9781482252705	V. Kuncser, P. Palade, G. Schinteie, F. Dumitrache, C. Fleaca, M. Scarisoreanu, I. Morjan, G. Filoti
37.	Lucrări practice de interferometrie şi polarimetrie,	Editura Universităţii din Bucureşti, 2016; ISBN 978-606-16-0744-0	Ovidiu-Theodor Toma, Cornelia Sima
38.	"Metallic nanosystems in hard tissue implants"	-- chapter 13 in Applications of Nanobiomaterials – volume 4: Nanobiomaterials in Hard Tissue Engineering (ed. Grumezescu, AM), Elsevier, U.K. (2016), ISBN: 978-0-323-42862-0	Fufă, O; Andronescu, E; Grumezescu, AM; Rădulescu, D;
39.	"PLA and PLGA nanoarchitectonics for improving anti-infective drugs efficiency"	-- chapter 13 in Applications of Nanobiomaterials – volume 6: Nanobiomaterials in Antimicrobial Therapy (ed. Grumezescu, AM), Elsevier, U.K. (2016), ISBN: 978-0-323-42864-4	Chifiriuc, MC; Fufă, OM; Grumezescu, V; Andronescu, E; Grumezescu, A.M. Holban, AM;
40.	"Specifically targeted imaging using functionalized nanoparticles" - chapter 1 in Applications of Nanobiomaterials	– volume 8: Nanobiomaterials in Medical Imaging (ed. Grumezescu, AM), Elsevier, U.K. (2016), ISBN: 978-0-323-41736-5	Popescu, RC; Fufă, MOM; Andronescu, E; Grumezescu, AM;
41.	„Transient collisionally excited X-ray lasers pumped with one long and two short pulses”,	14th International Conference on X-Ray Lasers, 2014; Fort Collins; United States; 26 May	Ursescu, D.,Cojocaru, G., Ungureanu, R., Banici, R.,

		2014 through 30 May 2014; Code 141439, Springer Proceedings in Physics, Volume 169, 2016, Pages 53-59 ISBN 978-3-319-19521-6; ISBN 978-3-319-19520-9	Ionel, L., Simion, S., Dabu, R., Tümmler, J., Jung, R., Stiel, H., Delmas, O., Pittman, M., Guilbaud, O., Kazamias, S., Cassou, K., Demailly, J., Neveu, O., Baynard, E., Ros, D., Le Marec, A., Daboussi, S., Lu, L., Klisnick, A., Zeitoun, P.
42.	Seeded operation of a Ne-like titanium soft X-ray laser",	14th International Conference on X-Ray Lasers, 2014; Fort Collins; United States; 26 May 2014 through 30 May 2014; Code 141439, Springer Proceedings in Physics Volume 169, 2016, Pages 61-67 ISBN 978-3-319-19521-6; ISBN 978-3-319-19520-9	Guilbaud, O., Kazamias, S., Cassou, K., Delmas, O., Demailly, J., Neveu, O., Ros, D., Baynard, E., Pittman, M., Shazad, M., Rossal, A., Tallents, G.J., Le Marec, A., Klisnick, A., Lu, L., Zeitoun, P., Cojocaru, G.V., Ungureanu, R.G., Banici, R.A., Ursescu, D.
43.	Book title: Recent Advances in Biopolymers, CHAPTER 9: Bio-Interfaces Engineering Using Laser-Based Methods for Controlled Regulation of Mesenchymal Stem Cell Response In Vitro	Publisher: InTech, pages 221-251, Print publication date: 6 March 2016; ISBN 978-953-51-2255-5	V. Dinca, L. E. Sima, L. Rusen, A. Bonciu, T. Lippert, M. Dinescu, M. Farsari,
44.	Methodologies for obtaining carburized steels by powder metallurgy	Capitol in: Advanced Engineering Materials. Recent Developments for Medical, Technological and Industrial Applications", Academica Greifswald, 2016, ISBN: 978-3-940237-38-5.	Marius Catalin Criveanu, Andrei Rotaru
45.	Azoic dyes: from thermal properties to a wide range of applications;	Capitol in: Advanced Engineering Materials. Recent Developments for Medical, Technological and Industrial Applications", Academica Greifswald, 2016, ISBN: 978-3-940237-38-5.	Andrei Rotaru, Anca Moanta
46.	Structural and morphological properties of $Sr_{0.5}Ba_{0.5}Nb_2O_6$ thin films deposited by RF-PLD technique on Pt:Si and MgO substrates	U.P.B. Sci. Bull., Series B, 78(3) (2016)	G. Stanciu, N. D. Scarisoreanu, R. Birjega, A. Moldovan, E. Andronescu, M. Dinescu

47.	Transparent Nd doped YAG ceramics	Journal of Physics: Conference Series 741(1) art. 012074 (2016); 3rd International School and Conference on Optoelectronics, Photonics, Engineering and Nanostructures (Saint Petersburg OPEN 2016), 28-30 March 2016, St Petersburg, Russia; doi:10.1088/1742-6596/741/1/012074	Stanciu, T. Dascalu, G. Stanciu, N. Pavel
48.	Application of image recognition algorithms for statistical description of nano- and microstructured surfaces	AIP Conf. Proc., Vol. 1722, Article no. 290006, 2016 http://dx.doi.org/10.1063/1.4944292	V. Mărăscu, I. Chițescu, V. Barna, M. D. Ioniță, A. Lazea-Stoyanova, B. Mitu, G. Dinescu,
49.	Investigation of deuterium retention in/desorption from beryllium-containing mixed layers	Nuclear Materials and Energy, Volume 6, January 2016, Pages 1-9	K. Sugiyama, C. Porosnicu, W. Jacob, I. Jepu, C.P. Lungu
50.	Efficiency of thermal outgassing for tritium retention measurement and removal in ITER	Nuclear Materials and Energy 2016, article in press;	De Temmerman, G., Baldwin, M.J., Anthoine, D., Heinola, K., Jan, A., Jepu, I., Likonen, J., Lungu, C.P., Porosnicu, C., Pitts, R.A.
51.	„Random and quasi-coherent aspects in particle motion and their effects on transport and turbulence evolution”	electronic preprint http://arxiv.org/pdf/1611.08521.pdf	Vlad M, Spineanu F
52.	„Turbulent transport of alpha particles in tokamak plasmas”	electronic preprint http://arxiv.org/pdf/1603.08343.pdf	Croitoru A. M., Palade D. I., Vlad M., Spineanu F.
53.	„An analogy between optical turbulence and activator-inhibitor dynamics”	electronic preprint http://arxiv.org/pdf/1607.05009.pdf	Spineanu F, Vlad M
54.	„On the late phase of relaxation of two-dimensional fluids: turbulence of unitons”	electronic preprint http://arxiv.org/pdf/1611.08526.pdf	Spineanu F, Vlad M
55.	Aplicarea microtomografiei de raze X in controlul materialelor si proceselor avansate	Examinari nedistructive, nr 1 (5) 2016	I. Tiseanu, T. Craciunescu, C. Sima, C. Dobrea, A. Sima, M. Lungu,
56.	Tungsten coatings for application in WEST project	Nuclear Materials and Energy, http://dx.doi.org/10.1016/j.nme.2016.09.003, 2016	E. Grigore , M. Gherendi, C. Hernandez, C. Desgranges, M. Firdaouss
57.	Graphical user interface for optimization of starch modified by electron beam irradiation	Elektrotechnica & Elektronica 5-6, 281-287, 2016	E. Koleva, L. Koleva, M. Brașoveanu, M.R. Nemţanu, T. Paneva, V. Tzotchev

58.	Electron-beam graft modification of biopolymers for use in the surface water treatment	Elektrotechnica & Elektronica 5-6, 262-266, 2016	M. Braşoveanu, M.R. Nemţanu, L. Flore, V. Anca
59.	Application of electron beam irradiation to modify the rheological behavior of pectins	Elektrotechnica & Elektronica 5-6, 257-261, 2016	M.R. Nemtanu, M. Brasoveanu
60.	Investigation and Optimization of Electron Beam Grafting of Corn Starch	Machines. Technologies. Materials. International Scientific Journal Year X, Issue 3, 52-55, 2016	Koleva E., Koleva L., Nemțanu M.R., Brașoveanu M., Vutova K., Tzotchev V.
61.	Dermatocosmetics Facial Masks for Topical Treatment of Acne	Proceedings of The 6th international conference on advanced materials and systems, 39, 2016.	E. Danila, Z. Moldovan, M. V. Ghica, M.G. Albu Kaya, V. Anuta, M. Demeter, C. Chirita
62.	Extreme light in zeptoseconds	Laser Focus World Magazine,27,april 2016	T. Dascalu, G. Mourou T. Tajima, J. Wheeler
Lucrari stiintifice/tehnice in reviste de specialitate fara cotatie ISI:			**62**

Anexa 7: Listă comunicări științifice prezentate la conferințe internaționale

Nr. Crt.	Titlul comunicarii/ tip prezentare	Conferinta, locul, tara, data	Autori
1.	Enhanced Gamma Radiation Effect in Bi/Er Co-Doped Optical Fibre by Co-Doping Yb	Asia Communications and Photonics Conference 2016, OSA Technical Digest (online) (Optical Society of America, 2016), paper AF2A.135.	B. Yan, Y. Luo, D. Sporea, L. Mihai, D. Negut, M. Ding, C. Wang, J. Wen, X. Sang, and G. Peng
2.	Assessment of mid-IR components for spaceborne instrumentation: Radiation tests	2016 IEEE Metrology for Aerospace (MetroAeroSpace), Florence, 2016, pp. 308-313	D. Sporea, L. Mihai, A. Sporea, D. Ighigeanu and D. Neguţ
3.	Perfluorinated polymer optical fiber for gamma radiation monitoring	Sixth European Workshop on Optical Fibre Sensors (EWOFS'2016) (pp. 99160H-99160H). International Society for Optics and Photonics	Stajanca, P., Mihai, L., Sporea, D., Negut, D. and Krebber, K.
4.	Electron beam irradiation of materials and components to be used in mid-IR spectroscopy	SPIE Photonics Europe, pp. 98990O-98990O. International Society for Optics and Photonics, 2016.	Sporea Dan, Laura Mihai, Adelina Sporea, Gabriela Crăciun, and Elena Mănăilă
5.	Optical and THz reflectance investigations of organic solar cells	SPIE Photonics Europe, pp. 989814-989814. International Society for Optics and Photonics, 2016.	Sporea Dan, Laura Mihai, Adelina Sporea, and Yulia Galagan
6.	On-line monitoring of gamma irradiated perfluorinated polymer optical fiber	SPIE Photonics Europe, pp. 98861Q-98861Q. International Society for Optics and Photonics, 2016.	Sporea Dan, Laura Mihai, Daniel Neguţ, Pavol Stajanca, and Katerina Krebber
7.	Hollow-core waveguide for single-mode laser beam propagation in the spectral range of 3.7-7.3 µm	SPIE OPTO, pp. 97552M-97552M. International Society for Optics and Photonics, 2016.	Patimisco, P., L. Mihai, M. Giglio, A. Sampaolo, P. P. Calabrese, J. M. Kriesel, D. Sporea, G. Scamarcio, F. K. Tittel, and V. Spagnolo
8.	BeCW PĀRKLĀJUMA APSTAROŠANA AR DAŽĀDU VIĻŅA GARUMU ns LĀZERU	4-6th August, 2016, Kuldiga, Latvia	L. Avotina, G. Kizane, A. Marcu, C. P. Lungu, C. Porosnicu, A. G. Ilie, A. Stancalie, S. Antohe

9.	Patterned Laser-grown Nanowires for Hydrogen Isotopes Detection with SAW-sensors	CIMTEC 2016 - 7th Forum on New Materials, 5-9th June, Perugia, Italy	A. Marcu, C.Viespe, I. Nicolae, B. Butoi, D.Paul, L.Avotina, C.P.Lungu
10.	Laser pyrolysis versus laser ablation in iron based nanoparticle fabrication	PRIOCHEM 2016 27-28 October 2016, Bucharest, Romania	B. Calin, A. Marcu, F. Dumitrache, C.Fleaca, R. Ianchis
11.	Surface diffusion control in PLD/VLS growing	PRIOCHEM 2016 27-28 October 2016, Bucharest, Romania	A. Marcu, B.Calin
12.	Femtosecond Laser Induced sp3 Bonds and Nanodiamonds Formation in Carbon Materials	Applied Nanotechnology and Nanoscience International Conference ANNIC 2016, 9-11 November 2016, Barcelona, Spain	A. Marcu, L. Avotina, C. Porosnicu, A. Marin, C.E.A. Grigorescu, R.Ungureanu, G. Cojocaru, D. Ursescu, M. Lungu, N. Demitri and C.P. Lungu,
13.	Periodical surface nanostructures induced by femtosecond laser	Applied Nanotechnology and Nanoscience International Conference ANNIC 2016, 9-11 November 2016, Barcelona, Spain	Bogdan Calin, Catalina Albu, Laura Ionel, Ecaterina Iordanova, Georgi Yankov and Aurelian Marcu
14.	ZnO Nanowires in Surface-Acustic-Wave Sensors	Applied Nanotechnology and Nanoscience International Conference ANNIC 2016, 9-11 November 2016, Barcelona, Spain	A.Marcu, C.Viespe, B.Butoi, D.Paul, L.Avotina and C.Lungu,
15.	Micro slits fabrication: potential technologies in MRT	COST Action: TD1205 - First WG3 core meeting “Micro slits fabrication: potential technologies in Micro-beam Radiation Therapy”, 29 February 2016, Bucharest, Romania	Diana G. Chioibasu, Mihai A. Savescu
16.	Micro slits fabrication: potential technologies in MRT	COST Action: TD1205 – 6th Work Group Meetings-7th MC Meeting “Micro slits fabrication: potential technologies in Micro-beam Radiation Therapy”, 14-15 March 2016, Rostock, Germany.	Diana G. Chioibasu, Mihai A. Savescu
17.	Application of response surface methodology for optimization of fiber laser welding of stainless steel 316 L	COST MP1401 Annual Conference, 12-14th April 2016, Zadar, Croatia	D.Chioibasu, D.Kolbčar, D.Sporea, M.Jezeršek, J.Tušek, M.Kos, M.Savescu
18.	Local and global even-odd effects in prompt emission in fission	International Conference on Nuclear Data for Science and Technology, 11-16.09.2016, Bruges, Belgia	G. Giubega, A. Tudora, F.J. Hambsch
19.	Microfabrication and non-invasive imaging of porous osteogenic	18th International Conference on Optics and Photonics, Stockholm,	I.A. Paun, M. Mihailescu, M.

	structures using laser-assisted technologies	Sweden, July 11 - 12, 2016	Zamfirescu, C.R. Luculescu, A.M. Acasandrei, C.C. Mustaciosu, R.C. Popescu, M. Dinescu
20.	Laser-lithography as a micro-machining tool for 3D laser-target engineering	10th International Conference on Photoexcited Processes and Applications, August 29 – September 2, 2016, Brasov, Romania	F. Jipa, I. Tiseanu, C. Luculescu, M. Cernaianu, D. Ursescu, M. Zamfirescu
21.	Ship-in-a-bottle integration of biomimetic architecture into lab-on-a-chip by femtosecond laser 3D processing: application to cancer research	ALT, 12-16 September, 2016, Galway, Ireland	F. Sima, D. Wu, J. Xu, K. Midorikawa, K. Sugioka
22.	Femtosecond laser micro- and nanoengineering of 3D environments for cancer cell study	ICSS, 25-29 June, 2016, Prague, Czech Republic	F. Sima, D. Wu, J. Xu, K. Midorikawa, K. Sugioka
23.	Setup for the characterization of quantum cascade lasers	Sesiunea anuala a Facultatii de Fizica	Laura MIHAI, P. BLEOTU, D. SPOREA
24.	Evaluation of mid-ir photoconductive and photovoltaic detectors	Sesiunea anuala a Facultatii de Fizica	Laura Mihai, Adelina Sporea, A. Stancalie, I. Vata, M. Straticiuc, I. Burducea
25.	Testing of Mg4Nb2O9 Ceramics for Space Applications	Sesiunea anuala a Facultatii de Fizica	Laura MIHAI, Andrei STACALIE, Dan SPOREA, L. NEDELCU, C. D. GEAMBASU, M. G. BANCIU, V. GHENESCU, T. PREDA, M. M. GUGIU
26.	THz nondestructive testing of optoelectronic components for spaceborne equipments	Organic and perovskite solar cells conference, Heraklion, Crete, 19-21 octombrie 2016	Laura Mihai, Adelina Sporea, Dan Sporea, Yulia Galagan
27.	Investigation on ionizing radiation effects on organic solar cells	StableNextSol - MP1307, Creta 2016	Laura Mihai
28.	Fiber optical monitoring of concrete blocks for radioactive waste management	Bucharest University Faculty of Physics 2016 Meeting	D. Sporea, A. Stancalie, L. Ionascu, M. Nicu
29.	Gamma radiation effects on electric arc discharge produced long period gratings	Bucharest University Faculty of Physics 2016 Meeting	A. Stancalie, D Sporea, D. Negut, R Ranhan, F. Esposito, A Iadicicco, S CAMPOPIANO
30.	Testing optoelectronic components under ionizing radiation fields	COST Action TD1401 meeting Athens Grece 2016	A. Stancalie
31.	Polyethylene terephthalate,	Conference “New trends in solar	Dan Sporea, Laura

	polyethylene naphthalate, eagle XG and soda-lime glasses tested under proton irradiation	cells 2016", 5th MC Meeting / 4th WG Meeting, April 2016, Bratislava	Mihai, Cristina Surdu-Bob, Mihai Straticiuc, et.al
32.	Mid-IR detectors testing for space applications	Mid-infraered optoelectronics: materials and devices (MIOMD-XIII), Beijing, China, 18-22 septembrie 2016	Dan Sporea, Laura Mihai, Adelina Sporea, et.al
33.	Long Period Gratings Written in Fluorine-doped Fibers by Electric Arc Discharge Technique	Sixth European Workshop on Optical Fibre Sensors, 991622 (May 30, 2016)	Ranjan R, Esposito F, Iadicicco A, Stancalie A, Sporea D, Campopiano S
34.	Reliability of quantum cascade lasers under gamma irradiation	Mid-infraered optoelectronics: materials and devices (MIOMD-XIII), Beijing, China, 18-22 septembrie 2016	Laura Mihai, Dan Sporea, Daniel Negut
35.	Experimental and theoretical investigation of the effect of laser parameters on laser ablation and laser-induced plasma formation	SPIE Photonics Europe , Bruxelles, 2016	Stancalie A, Ciobanu S,Sporea D
36.	Impacts of gamma irradiation on Cytop plastic optical fibers	25th International Conference on Plastic Optical Fibres (POF 2016)	P. Stajanca, L. Mihai, D. Sporea, D. Negut, et.al.
37.	Proton irradiation tests of quantum cascade lasers	2016 IEEE International Conference on Advanced Materials for Science and Engineering (ICAMSE 2016), 12 - 13 noiembrie, 2016, Tainan, Taiwan	D. Sporea, L. Mihai, M. Straticiuc, I. Burducea, P. Bleotu
38.	Arc-Induced Long Period gratings in fluorine-doped optical fibers	FOTONICA 2016 AEIT, 6-8 iulie 2016, Roma, Italia	F Esposito, R Ranjan, A Iadicicco, A Stăncălie, D Sporea, S Campopiano
39.	Investigation of the effect of laser parameters on the target, plume and plasma behaviour during and after laser solid interaction	10TH INTERNATIONAL CONFERENCE ON PHOTOEXCITED PROCESSES AND APPLICATIONS, AUGUST 29 – SEPTEMBER 2, 2016, BRASOV, ROMANIA	A. Stancalie, S. Ciobanu, D. Sporea
40.	Laser induced breackdown spectroscopy on soil samples	10TH INTERNATIONAL CONFERENCE ON PHOTOEXCITED PROCESSES AND APPLICATIONS, AUGUST 29 – SEPTEMBER 2, 2016, BRASOV, ROMANIA	A. Stancalie, A. Neagoe, V. Iordache, A. Staicu
41.	Femtosecond laser modification of NiPd single and 5xNi/Pd multilayer thin film	10th International Conference on Photoexcited Processes and Applications, August 29 – September 2, 2016, Brasov, Romania.	S. Petrović, B. Gaković, D. Peruško, B. Radak, M. Zamfirescu, C. R. Luculescu, I. N. Mihailescu
42.	Long period grating response to gamma radiation	Conferinta internationala SPIE Photonics Europe, 3 - 7 aprilie,	A. Stancalie, D. Sporea, D. Negut , S.

		2016, Brussels	Delepine-Lesoille, L. Lablonde
43.	Gamma radiation influence on silica optical fibers measured by optical backscatter reflectometry and Brillouin sensing technique	Conferinta internationala European Workshop on Optical Fibre Sensors, 31 mai - 3 iunie, 2016, Limerick, Irlanda	A. Wosniok, D. Sporea, D. Neguţ, K. Krebber
44.	Infrastructure for MIR lasers characterization	International Training School on Fiber Lasers & Optical Fiber Technology, 30 august - 1 septembrie, 2016, Prague	L. Mihai, D. Sporea
45.	Test of optical fibers under electron beam irradiation	2016 IEEE International Conference on Advanced Materials for Science and Engineering (ICAMSE 2016), 12 - 13 noiembrie, 2016, Tainan, Taiwan	D. Sporea, A. Sporea, C. Oproiu
46.	Training aids for STEM education at primary and middle school level	8th annual International Conference on Education and New Learning Technologies, Barcelona, Spain, 4th to 6th July, 2016	A. Sporea, D. Sporea, C. Iacob
47.	Teachers and students' creativity in the context of inquiry-based science education	International Conference on Creative Education, Tampere, Finlanda, 8-11.11.2016	A. Sporea, D. Sporea
48.	In service teachers' training by running inquiry projects	9th annual International Conference of Education, Research and Innovation, Sevilia, Spania, 14-16.11.2016	A. Sporea, D. Sporea
49.	Materiale educationale pentru predarea stiintelor, dezvoltate in cadrul proiectului iBEST	Conferinta internationala "Science Education in School", Galati, 22-23.04.2016	A. Sporea, D. Sporea
50.	3D THz hyperspectrum applied in security check-in, POSTER	Atom – N, 25-28aug 2016 Constanta, 10010 - 78	V. Damian, P.C. Logofătu, T.Vasile
51.	Terahertz spectroscopic investigations of hazardous substances, POSTER	Atom – N, 25-28aug 2016 Constanta, 10010-83	M.Bojan, V.Damian, C.Fleaca, T.Vasile
52.	Assessment of illumination conditions in a single-pixel imaging configuration, POSTER	Atom – N, 25-28aug 2016 Constanta, 10010-89	F. Garoi, C. Udrea, C.Damian, P.C. Logofat D,.Coltuc
53.	Artificial enhancement of fill factor and resolution for monochrome CMOS sensor array, ORAL	Sesiunea Stiintifica Anuala a Facultatii de Fizica 17 iulie 2016	T.Vasile, V.Damian, M.Vasile, D.Coltuc
54.	"The influence of temperature on the CIGS films deposited by picosecond laser ablation for solar cells applications", POSTER	6 th International Symposium on Transparent Conductive Materials, 9-13 octombrie 2016, Platanais-Chania, Creta-Grecia Pagina 157	Cornelia Sima, Ovidiu Toma
55.	"Laser treated Chlorpromazine in interaction with target surfaces of	Annual Scientific Conference University of Bucharest, Faculty of	Simon, A.; Stoicu, A.; Tozar, T.; van Loon, J.

	biomedical interest: revelation of results obtained within ESA's "Spin Your Thesis!" programme" ORAL	Physics 2016 Meeting, Magurele, Romania	J.W.A.; Dowson, A.; Pascu, M.L.
56.	"Laser exposed medicine impregnated target surfaces subjected to simulated hypergravity condition, in view of space medicine applications"; ORAL	Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies (ATOM-N) Conference, Constanta, Romania	Simon, A.; Andrei, I.R.; Damian, V.; Pascu, M.L.
57.	"Susceptibility of bacteria to photo-chemically generated agents from phenothiazine derivatives"; POSTER	10th International Conference on Photoexcited Processes and Applications (ICPEPA-10) , Brasov, Romania	Tozar T; Stoicu A; Nastasa V; Popa M; Chifiriuc C; Andrei I R; Pascu ML
58.	"Spectroscopic investigations of novel pharmaceuticals: stability and laser beam resonant interaction"; POSTER	10th International Conference on Photoexcited Processes and Applications (ICPEPA-10) , Brasov, Romania	A. Smarandache; A. Pascu; M. Boni; I. Andrei; J. Handzlik; K. Kiec-Kononowicz; A. Staicu; M.-L. Pascu
59.	"Photosensitized cleavage of some olefins as potential linkers to be used in drug delivery"; POSTER	10th International Conference on Photoexcited Processes and Applications (ICPEPA-10) , Brasov, Romania	A. Dinache; A. Smarandache; T. Alexandru; A. Pascu; V. Nastasa; A. Simon; M. Enescu; A. Khatyr; F. Sima; M.L. Pascu; A. Staicu
60.	"Photophysics of single wall carbon nanotubes covalently functionalised with porphyrin photosensitizers"; POSTER	10th International Conference on Photoexcited Processes and Applications (ICPEPA-10) , Brasov, Romania	A. Staicu; A. Pascu; A. Smarandache; T. Alexandru; M.L. Pascu
61.	"Studies on the laser induced emission of pendant droplets of dye water solutions containing TiO2 nanoparticles"; ORAL	Smart and Green Interfaces Conference 2016, Athens, Greece	A. Staicu; M. Boni; I. R. Andrei; A. Smarandache; V. Nastasa; Z. Saponjic; M.L. Pascu
62.	"Lasing effects in microvolumetric droplets pumped by laser beams", ORAL	EMN Meeting On Droplets 2016, Donostia-San Sebastián, Spain	Boni, M; Andrei,IR; Staicu, A; Pascu, ML
63.	"Time deconvolution of lasing emission of microvolumetric droplets pumped by laser beams", ORAL	Annual Scientific Conference University of Bucharest, Faculty of Physics 2016, Magurele, Romania	Boni, M; Andrei, IR; Staicu, A; Pascu, ML
64.	"Fluorescence emission structure of a side-pumped Rh6G dye-doped micro-droplet"; POSTER	10th International Conference on Photoexcited Processes and Applications (ICPEPA-10) , Brasov, Romania	I.R. Andrei, M. Boni, A. Staicu, M.L. Pascu
65.	"Sclerosing foams assessment in view of their use in sclerotherapy", ORAL	Smart and Green Interfaces Conference 2016, Athens, Greece	V.Nastasa, K.Samaras, Ch. Ampatzidis, T.D. Karapantsios, M. A.

			Trelles, J. Moreno-Moraga, A. Smarandache, M.L.Pascu
66.	“Optical properties of sclerosing foams in view of their use in sclerotherapy”, ORAL	Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies (ATOM-N) Conference, Constanta, Romania	V.Nastasa, K.Samaras, Ch. Ampatzidis, T.D. Karapantsios, M. A. Trelles, J. Moreno-Moraga, A. Smarandache, M.L.Pascu
67.	"Atomic data for transitions in SV' ORAL	19th Int Conf on Atomic Processes in Plasmas, 3-7Aprile, Paris 2016/AtomicDataand Processes ADP.06	V.Stancalie, V.Pais, C. Iorga,
68.	"SPARC@FAIR Instrumentation TDR: Coupling of lasers to the UHV storage ring" LECTIE INVITATA	Cracovia 16-20 sept 2016, SPARC Topical Meeting/	V. Stancalie,
69.	Theoretical investigation of two-colour XRL by means of inner-shell PI pumping scheme" ORAL	Int. Balkan Workshop on Appl. Phys., Contanta, 7-9 iulie 2016	C. Iorga, V. Stancalie
70.	Studies on electron correlation and relativistic effects in target representation and low energy collision calculations" POSTER	IAEA Topical Meeting on 'Uncertainty Assessment for Atomic and Molecular Data" 18-22 Dec 2016	V. Stancalie, C. Iorga, V. Pais
71.	Recent EUROfusion achievements in support to computationally demanding multi-scale fusion physics simulations and integrated modelling", LECTIE INVITATA	26th IAEA Fusion Energy Conference, 17-22 October 2016, Kyoto, Japan	I. Voitsekhovitch, R. Hatzky, D. Coster, F. Imbeaux, D. C. McDonald, T. B. Fehér, K. S. Kang,H. Leggate, M. Martone, S. Mochalskyy, X. Sáez, T. Ribeiro, T.-M. Tran, A. Gutierrez-Milla, S. Heuraux, M. Hölzl, S. D. Pinches, F. da Silva, D. Tskhakaya, T. Aniel, D. Figat, L. Fleury, O. Hoenen, J. Hollocombe, D. Kaljun1, G. Manduchi, M. Owsiak, V. Pais, B. Palak, M. Plociennik, J. Signoret, C. Vouland, D. Yadykin
72.	EUROfusion Integrated Modelling (EU-IM) capabilities and selected	26th IAEA Fusion Energy Conference, 17-22 October 2016,	G. Falchetto, P. Strand, G. Vlad, D.

	physics applications", LECTIE INVITATA	Kyoto, Japan	Kalupin, M.I. Airila, A.A. Morillas, C. Boulbe, R. Coelho, D. Coster, T. Johnson, A. H. Nielsen, E. Andersson Sunden, T. Aniel, J.F. Artaud, O. Asunta, C.V. Atanasiu, M. Baelmans, V. Basiuk, R. Bilato, M. Blommaert, D. Borodin, S. Briguglio, J. Buchanan, F. Casson, G. Ciraolo, J. Citrin, S. Conroy, V. Doriæ, R. Dumont, E. Fable, B. Faugeras, J. Ferreira, L. Figini, A. Figueiredo, G. Fogaccia, C. Fuchs, K. Ghoos, E. Giovannozzi, C. Gleason-Gonzalez, V. GoloborodKo, O. Hoenen, N. Horsten, P. Huynh, F. Imbeaux, I. Ivanova-Stanik, L. Kos, V. Kotov, J. Krek, C. Lechte, E.A. Lerche, R. Lohner, J. Madsen, O. Maj, G. Manduchi, M. Mantsinen, Y. Marandet, N. Marushchenko, S. Mastrostefano, R. Mayo-Garcia, P.J. Mc Carthy, A. Merle, S. Moradi, E. Nardon, W. Natorf, S. Nowak, M. O Mullane, M. Owsiak, V. Pais, B. Palak, G. Pelka, V. Pericoli-Ridolfini, M. Plociennik, G.I. Pokol, E. Poli, D. Poljak, H. Radhakrishnan, H. Reimerdes, D. Reiser, P. Rodrigues, X. Saez,

			D. Samaddar, O. Sauter, K. Schmid, B.D. Scott, S. šEsnić, J. Signoret, S.K. Sipilä, R. Stankiewicz, E. Suchkov, A. šUšNjara, G. Szepesi, D. Tegnered, L. Tophøj, K. TőKési, D. Tskhakaya, J. Urban, P. Vallejos, D. Van Eester, S. Varoutis, L. Villard, F. Villone, B. Viola, E. Westerhof, D. Yadikin, R. Zagorski, F. Zaitsev, T. Zok, W. Zwingmann, S. AKäslompolo
73.	Big Data and Deep Learning Based Predictive Analytics of High Order Harmonics Generation Optimal Scenarios, ORAL	ROLCG 2016 Conference- Grid, Cloud and High Performance Computing in Science, 26-28 octombrie, Magurele, Romania, pg. 31, prez. orala	A. Mihailescu
74.	Big Data Based Predictive Modelling of Laser-Plasma Interaction Scenarios. Designing Predictive and Recommender Systems, ORAL	The Big Data Theory Summer School, University of Rome Tor Vergata, 25-31 iulie 2016, Roma, Italia, prez. orala	A. Mihailescu
75.	Big Data in Research. Building Predictive and Recommender Systems for Predictive Modelling of Laser-Plasma Interaction Scenarios, ORAL	University of Pannonia, Veszprem, Ungaria, 16-22 iulie 2016, prez. orala	A. Mihailescu
76.	“Functionalized Graphene Oxide nanoscale thin films for melanoma therapy” –POSTER	10th International Conference on Photoexcited Processes and Applications, August 29 – September 2, 2016, Brasov, Romania	I. Negut, V. Grumezescu, C. Hapenciuc, T. Alexandru, F. Sima, L.E. Sima, si E. Axente
77.	"MAPLE fabricated graphene oxide thin films as tunable platforms for cancer therapy"– POSTER	10th International Conference on Photoexcited Processes and Applications, August 29 – September 2, 2016, Brasov, Romania	I. Negut, V. Grumezescu, C. Hapenciuc, S. Iosub, F. Sima, L.E. Sima, E. Axente
78.	Innovative Nanocomposites for Life Using Powder Metallurgy, ORAL	BIT’s 6th Annual World Congress of Nano Science & Technology – 2016, Nano-S&T 2016, October 26-28, 2016, Singapore (session 311: Functional Hybrid Nanomaterials and Nanocomposites)	Oana Gingu, Cristina Teisanu, Sorin Croitoru, Felix Brehar, Carmen Ristoscu, Speranta Tanasescu, Dan Cojocaru

79.	"Combinatorial pulsed laser evaporation technique for drug delivery and biomimetic implants applications" ORAL	(LMI-22) at INTERNATIONAL SYMPOSIUM "Fundamentals of Laser Assisted Micro– & Nanotechnologies (FLAMN-16)" June 27 – July 1, 2016, St. Petersburg - Russia	C. Ristoscu, F. Sima, E. Axente, L. E. Sima, N. Mihailescu, E. Toksoy Oner, A. Bigi, I. N. Mihailescu
80.	"Soft laser methods for biofabrication: 2D and 3D structures of nanomaterials for new top technologies" LECTIE INVITATA	(LT-6) at INTERNATIONAL SYMPOSIUM "Fundamentals of Laser Assisted Micro– & Nanotechnologies (FLAMN-16)" June 27 – July 1, 2016, St. Petersburg - Russia	I. N. Mihailescu, C. Ristoscu
81.	"Structural and biological investigation of biocomposite powders and thin films" POSTER (P111)	ICPEPA-10, August 29 – September 2, 2016, Brasov, Romania	C. Ristoscu, N. Mihailescu, M. Sopronyi, I. N. Mihailescu, O Gingu, L. E. Sima
82.	"Improvement in Ultraviolet Based Decontamination rate Using Meta-materials" ORAL	ICPEPA-10, August 29 – September 2, 2016, Brasov, Romania	S. Bazgan, M. Turcan, T. Paslari, N. Ciobanu, C. Ristoscu, I. N. Mihailescu, A. Vaseashta, N. Enaki
83.	"Nanostructured bioactive glass thin films synthesized by pulsed laser deposition onto biodegradable metallic implants" POSTER (P100) presentation	ICPEPA-10, August 29 – September 2, 2016, Brasov, Romania	Natalia Mihailescu, A. Ficai, Carmen Ristoscu, F. Sima, C.N. Mihailescu, Laura Floroian, M. Sopronyi, Mariana Carmen Chifiriuc, Irina Negut, Coralia Bleotu, Ion N. Mihailescu
84.	"Evanescent Optical Trapping Method for Localization and Decontamination of Viruses and Microorganisms" POSTER (P06) presentation	ICPEPA-10, August 29 – September 2, 2016, Brasov, Romania	N. Ciobanu, I.N. Mihailescu, C. Ristoscu, M. Turcan, T. Pislari, N. Enaki
85.	"Antimicrobial thin films based on ayurvedic plants extracts embedded in a polymeric matrix" POSTER (P86) presentation	ICPEPA-10, August 29 – September 2, 2016, Brasov, Romania	L. Floroian, C. Ristoscu, N. Mihailescu, M. Badea, E. Pozna, M. Galca, M. Moscatelli, N. Pastori, G. Candiani, R. Chiesa, I.N. Mihailescu
86.	"Pulsed Laser Deposition of Thin Catalyst Layers for PEM Fuel Cells" POSTER (P107) presentation	ICPEPA-10, August 29 – September 2, 2016, Brasov, Romania	I. Perović, D. Milovanović, S. Maslovara, P.

			Laušević, C. Ristoscu, G. Socol, I. N. Mihailescu, B. Radak
87.	"Role of Substrate Morphology on the Characteristics of Noble Nanoparticles Produced by Laser-induced Deposition" POSTER (P121) presentation	ICPEPA-10, August 29 – September 2, 2016, Brasov, Romania	N. Stefan, N. E. Stankova, F.M. Miroiu, C. Hapenciuc, C. Ristoscu, I.N. Mihailescu, At. N. Tzonev
88.	"Pulsed laser synthesis of biomaterial thin films by for biomedical applications" INVITED LECTURE (16)	SLIMS 2016, International School on Lasers in Materials Science Lasers for the Nano-Engineering of Surfaces, Venice, San Servolo, Italy, July 10-17, 2016	Ion N. Mihailescu, Carmen Ristoscu
89.	"Presentation of the new laser facilities in Magurele, Romania ---ELI---NP and CETAL" INVITED LECTURE	WP4 meeting of COST action MP--1208 "Developing the Physics and the Scientific Community for Inertial Fusion", April 17 – 20, 2016, Belgrade, Serbia	Carmen Ristoscu
90.	"Improved osteoblast adhesion on hydroxyapatite thin films capped with fibronectin" POSTER presentation (C.PI.9)	Symposium C: Laser-material interactions for tailoring future applications of E-MRS Spring Meeting, May 2- 6, 2016, Lille, France	G. Popescu-Pelin, M. Sopronyi, F. Sima, L. E. Sima, G. Socol, C.N. Mihailescu, C. Luculescu, M. Socol, I. Iordache, C. Ristoscu, I. N. Mihailescu
91.	Fe3O4-polyaniline based coatings for biomedical applications, POSTER P108	10TH International Conference on Photoexcited Processes and Applications (ICPEPA-10), P108	G. Popescu-Pelin, M. Socol, R. C. Popescu, D. Savu, M. Temelie, O. Fufa, C. Florica, C. Luculescu, I. Zgura, S. Banita, I. N. Mihailescu, G. Socol
92.	MAPLE deposition of Fe3O4-polyaniline coatings for biomedical applications, T7-P9 POSTER	11TH International Conference On Physics Of Advanced Materials (ICPAM-11), T7-P9	G. Popescu-Pelin, M. Socol, R. C. Popescu, D. Savu, M. Temelie, O. Fufa, C. Florica, C. Luculescu, I. Zgura, S. Banita, V. Craciun, H. Swart, I. N. Mihailescu, G. Socol
93.	Antimicrobial chitosan/ biomimetic apatite coatings fabricated by Combinatorial Matrix-Assisted Pulsed Laser Evaporation technique for tissue engineering, T8-P10 POSTER	11TH International Conference On Physics Of Advanced Materials (ICPAM-11), T8-P10	G. Popescu-Pelin, A. Visan, C. Ristoscu, M. Soprony, G. Stan, C. Besleaga, C. Luculescu, C.-M. Chifiriuc, O. Marsan, D. Grossin, F. Brouillet, I. N.

			Mihailescu
94.	In vitro investigations of highly adherent biological hydroxyapatite thin films for a new generation of implants, POSTER P-22	PRIOCHEM, P-22	G. Popescu-Pelin, G.E. Stan, A.C. Popescu, V. Grumezescu, M. Enculescu, C. Besleaga, I. Zgura, P.E. Florian, L.E. Sima, A. Roseanu, F.N Oktar, I.N. Mihailescu, L. Duta
95.	"Combinatorial MAPLE deposition of antimicrobial coatings based on chitosan/biomimetic apatite powders for orthopedic applications" POSTER presentation (C.PI.13)	Symposium C: Laser-material interactions for tailoring future applications of E-MRS Spring Meeting, May 2- 6, 2016, Lille, France	Anita Visan, Carmen Ristoscu, Gianina Popescu-Pelin, Mihai Soprony, George Stan, Cristina Besleaga, Catalin Luculescu, Carmen Mariana Chifiriuc, Olivier Marsan, David Grossin, Fabien Brouillet, Ion N. Mihailescu
96.	"Pulsed laser deposition of simple and reinforced biological hydroxyapatites for medical applications" POSTER presentation S2 P20	IBWAP 2016	Liviu DUTA, Jeanina LUNGU, George STAN, Andrei POPESCU, Gianina POPESCU-PELIN, Carmen RISTOSCU, Faik OKTAR, Ion MIHAILESCU
97.	Antimicrobial coatings of C doped with Ag and Si, 11/05/2015 - 16h00 - session CC.PI – ref. 50	E-MRS 2016 Spring Meeting, 2-6 May 2015, Lille, France; 11/05/2015 - 16h00 - session CC.PI – ref. 50	I. Negut, C. Ristoscu, G. Socol, G. Stan, C. Chifiriuc , C. Hapenciuc , I. N. Mihailescu
98.	MAPLE deposition of Fe3O4 nanoparticles functionalized with Nigella sativa for antimicrobial applications POSTER session:Deposition and coating of thin films, multilayers, and nanostructured materials, ref. P100	10th International Conference on Photoexcited Processes and Applications (ICPEPA-10), August 29 – September 2, 2016, Brasov, Romania, Poster session:Deposition and coating of thin films, multilayers, and nanostructured materials, ref. P100	I. Negut, V. Grumezescu, A.M. Holban, F. Iordache, R. Trusca, M. Petrus, G. Socol
99.	Selection of antimicrobial Silver-doped Carbon structures by combinatorial pulsed laser deposition POSTER session:Deposition and coating of thin films, multilayers,	10th International Conference on Photoexcited Processes and Applications (ICPEPA-10), August 29 – September 2, 2016, Brasov, Romania	C. Hapenciuc, I. N. Mihailescu, D. Bociaga, G. Socol, G. E. Stan, M. C. Chifiriuc, C. Bleotu, M. A. Husanu, C.

	and nanostructured materials, ref. P90		Luculescu, G. Popescu-Pelin, L. Duta, I. Negut, C. Besleaga, I. Zgura, F. Miculescu
100.	Antimicrobial properties of coatings based on Nigella sativa functionalized Fe3O4 nanoparticles deposited by MAPLE POSTER P – 32, Section 3 – Multifunctional materials and nanocomposites	Simpozionul international Prioritatile Chimiei pentru o Dezvoltare Durabila - PRIOCHEM, Editia a XII-a - 27 – 28 octombrie 2016 - Bucuresti – ROMANIA	I. Negut, V. Grumezescu, A.M. Holban, F. Iordache, R. Trusca, M. Petrus, G. Socol
101.	Isoflavonoid-based Thin Coatings Fabricated by MAPLE For Improved Antimicrobial Resistance POSTER P.6.1, 6. Biomaterials and organic materials for medical applications	The 5th International Colloquium "Physics of Materials" (PM 5), 10-11 November 2016, BUCHAREST, ROMANIA	I. Negut, R. Cristescu, V. Grumezescu, G. Socol, A.M. Holban, R. Trusca, F. Iordache, M.C. Chifiriuc, R. Narayan, D.B. Chrisey
102.	MAPLE fabricated graphene oxide thin films as tunable platforms for cancer therapy POSTER P.6.2,. 6. Biomaterials and organic materials for medical applications	The 5th International Colloquium "Physics of Materials" (PM 5), 10-11 November 2016, BUCHAREST, ROMANIA	I. Negut, V. Grumezescu, C. Hapenciuc, S. Iosub, F. Sima, L. E. Sima, E. Axente
103.	MAPLE Deposition of Complex Hybrid Fe3O4-PEDOT:PSS-PLGA Coatings, POSTER P102	10th International Conference on Photoexcited Processes and Applications, August 29 – September 2, 2016, Brasov, Romania,	F. M. Miroiu, N. Stefan, A. I. Visan, C. Luculescu, V. Grumezescu, C. Radu, R. Cristescu, M. Socol, R. C. Popescu, D. Savu, M. Temelie, G. Socol
104.	Muramidase embedded into degradable polymers blends for antimicrobial applications; POSTER P125	10th International Conference on Photoexcited Processes and Applications, August 29 – September 2, 2016, Brasov, Romania	A. Visan, N. Stefan, M. Miroiu, C. Nita, G. Dorcioman, O. Rasoga, I. Zgura, C. Breazu, I. Iordache, A. Stanculescu, R. Cristescu, M.C. Chifiriuc, L. Sima, I.N. Mihailescu, G. Socol
105.	Antimicrobial calopocarpin-polyvinylpyrrolidone composite coatings fabricated by MAPLE; POSTER P69	10th International Conference on Photoexcited Processes and Applications, August 29 – September 2, 2016, Brasov, Romania	A.Visan, M. Miroiu, M.C. Chifiriuc, I.N. Mihailescu, G. Socol, R. Cristescu
106.	PLD and MAPLE deposited WO3 thin films for gas sensors POSTER P76	10th International Conference on Photoexcited Processes and Applications, August 29 –	S. Boyadjiev, V. Georgieva, N. Stefan, N. Mihailescu, A.

		September 2, 2016, Brasov, Romania	Visan, I. N. Mihailescu, K. A. Gesheva, I. M. Szilágyi
107.	Polyaniline grafted lignin coatings fabricated by MAPLE for medical applications POSTER P124	10th International Conference on Photoexcited Processes and Applications, August 29 – September 2, 2016, Brasov, Romania	A. Visan, O.Fufa, C.Matei, M. Socol, C.Luculescu ,R.C.Popescu, D. Savu, R. Cristescu, I.N. Mihailescu, D.Craciun, G. Socol
108.	Lysozyme embedded into degradable polymers blends for antimicrobial applications Poster presentation POSTER C.PI.64	: E-MRS 2016 SPRING MEETING, May 2-6, Lille, France	A. Visan, N. Stefan, M. Miroiu, C. Nita, G. Dorcioman, O. Rasoga, I. Zgura, C. Breazu, I. Iordache, A. Stanculescu, R. Cristescu, M.C. Chifiriuc, L. Sima, I.N. Mihailescu, G. Socol
109.	Antimicrobial chitosan/apatite coatings fabricated by combinatorial -matrix assisted pulsed laser evaporation technique for tissue engineering POSTER T8-P10	11th International Conference on Physics of Advanced Materials (ICPAM-11) ,Cluj,Romania	Anita Visan, Carmen Ristoscu, Gianina Popescu-Pelin, Mihai Sopronyi, George Stan, Cristina Besleaga, Catalin Luculescu, Carmen Mariana Chifiriuc, Olivier Marsan, David Grossin, Fabien Brouillet, Ion N. Mihailescu
110.	MAPLE fabrication of CaPs: Poly (3-hydroxybutyrate-co3-hydroxyvalerate) - based coatings as substrate for bone tissue engineering. P117 – POSTER presentation	10th International Conference on Photoexcited Processes and Applications - ICPEPA-10, Brasov, Romania, 29 August – 2 Septembrie 2016.	G. Socol , O. Rasoga , M. Chiritoiu , L. Sima , V. Grumezescu , G. Popescu-Pelin , M. Socol, I. Zgura.
111.	Broad spectrum anti-microbial thin coatings for titanium implants obtained by laser deposition of P(3HB-3HV)/Lys spheres. P1713 – POSTER presentation	26th European Congress of Clinical Microbiology and Infectious Diseases ECCMID, Amsterdam, Olanda, 9 – 12 Aprilie 2016.	V. Grumezescu, E. Andronescu, A.M. Grumezescu, L.Sima, F.Safciuc, F.Antohe, A.M.Holban, M.C.Chifiriuc, G.Socol.
112.	MAPLE fabricated thin coatings based on magnetite nanoparticles embedded into biopolymeric spheres with resistance to microbial colonization. P89 –	10th International Conference on Photoexcited Processes and Applications - ICPEPA-10, Brasov, Romania, 29 August – 2 Septembrie 2016.	V. Grumezescu, A.M. Holban, M.C. Chifiriuc, A.M. Grumezescu, R. Trusca, F.Iordache,

	POSTER presentation		M. Patachia, G. Socol.
113.	"Nanocomposite dodecylsulfate-modified Mg-Al layered double hydroxide thin films deposited via laser technique", POSTER	Advanced Manufacturing, Electronics and Microsystems TechConnect Briefs 2016, pp. 31 - 35	A. Vlad, R. Birjega, A. Matei, M. Dumitru, M. Dinescu, R. Zavoianu, O.D. Pavel, M.C. Corobea
114.	Laser Processing of Soft Materials: Laser Induced Forward Transfer and 2 photon polymerization, LECTIE INVITATA	5th Venice International School on Lasers in Materials Science, SLIMS, S. Servolo Island, Venice, Italy, July 10-17, (2016)	Maria Dinescu (Alexandra Palla-Papavlu, Irina Alexandra Paun, Thomas Lippert)
115.	Designing multifunctionality of laser processed thin films/nanostructures through chemical pressure and epitaxial strain., LECTIE INVITATA	20th International Vacuum Congress (IVC-20), Busan, Korea, August 21 -26, (2016.)	Maria Dinescu, (Nicu D. Scarisoreanu, Floriana Craciun, Ruxandra Birjega)
116.	Advances in laser direct-writing of carbon materials for flexible micro-device fabrication, LECTIE INVITATA	Conference on Advanced Laser Technologies (ALT'16), Galway, Ireland, 12-16 September (2016)	Maria Dinescu (Alexandra Palla Papavlu, Mihaela Filipescu, Alexander Wokaum, Thomas Lippert
117.	Pulsed laser deposition of oxide thin films: beyond bulk constrains through chemical pressure and epitaxial strain, LECTIE INVITATA	E-MRS Fall Meeting, Symposium Y, “Pulsed-laser deposition of thin films: 30 years of fundamentals, innovative materials and applications”, Warsaw, Poland, 19-22 September (2016)	M. Dinescu (Nicu D. Scarisoreanu, F. Craciun, Ruxandra Birjega, Valentin Ion, A. Andrei
118.	Multiscale bone-like intelligent interfaces engineering using laser methods for steering mesenchymal stem cells behaviour in vitro - LECTIE INVITATA	HPLA DE 2016, Promising New Laser and Optical Technologies Symposium, April 4-7, Santa Fe, USA	V. Dinca, Livia Elena Sima, L. Rusen, Anca Bonciu, P. Hoffmann and M. Dinescu
119.	Materials and laser technologies for controlled bio-interfaces in tissue engineering applications - LECTIE INVITATA	7-14 september-ICPAM 2016, Cluj, Roamanis	V. Dinca, L. E. Sima, L. Rusen, M. Icriverzi, A. Bonciu, I.Anghel, A. Roseanu, P.Hoffmann, M.Dinescu,
120.	Smart Thermoresponsive Coatings Based on pNIPAM and its Derivatives Obtained by Matrix Assisted Pulsed Evaporation LECTIE INVITATA	HPLA DE 2016, Promising New Laser and Optical Technologies Symposium, April 4-7, Santa Fe, USA -	L. Rusen, M. Icriverzi, C. Mustaciosu, V. Dinca, L. Sima, N. Mihailescu, S. Brajnicov, A. Bonciu, A. Campean, A. Roseanu, M. Dinescu
121.	Microfabrication and non-invasive imaging of porous osteogenic structures using laser-assisted technologies POSTER	18th International Conference on Optics and Photonics, Stockholm, Sweden, July 11 - 12, (2016) (poster)	I.A. Paun, M. Mihailescu, M. Zamfirescu, C.R. Luculescu, A.M.

			Acasandrei, C.C. Mustaciosu, R.C. Popescu, M. Dinescu
122.	Multiscale intelligent interfaces engineering using laser methods for mesenchymal stem cells behaviour control , - ORAL presentation EMRS2016 Q.5.5	EMRS 2016, Smart biointerfaces for functional biomaterials Symposium, May 2-6, Lille, France	V. Dinca, L.E. Sima, A. Bonciu, L. Rusen, I. Iordache(Urzica), M. Dinescu ,
123.	Inflammatory response of hybrid biomimetic coatings obtained by MAPLE , ORAL presentation EMRS2016 S.3.5	EMRS 2016-Biomimetic bioactive biomaterials - the next generation of implantable devices Symposium, May 2-6, Lille, France -	M. Icriverzi, V.Dinca, L.E. Sima, L. Rusen, S. Brajnicov, V.Marascu, A.Bonciu, A. Roseanu and M.Dinescu
124.	Micro topographical surface features and gradients for influencing mesenchymal stem cells behavior for bone tissue engineering, ORAL	Nanotech Washington, USA, 22-25 may-2016	V. Dinca, L.E. Sima, L. Rusen, A. Bonciu, P. Hoffmann,
125.	Laser based methods for nano- and micro-engineered biomaterials for regenerative medical applications, ORAL	16 th International Balkan Workshop on Applied Physics 7 -9 July 2016, Constanta, Romania	Dinca V, Rusen, A Bonciu, L.E Sima,
126.	In vitro behaviour of human mesenchymal stem cells on smart biointerfaces obtained by laser methods for tissue engineering applications, ORAL	ICPEPA10, 28 august -2 sept 2016, Brasov, Romania	L. Rusen, Livia Elena Sima, Madalina Icriverzi, N. Mihailescu, I. Anghel, A. Bonciu, S. Brajnicov, A. Cimpean, M. Dinescu, A. Roseanu and V. Dinca
127.	Multifunctional (BA1−XCAX)(ZRYTI1−Y)O3 coatings obtained by laser deposition methods; ORAL	IBWAP 2016 (International Balkan Workshop on Applied Physics and Materials Science), 7-9 Iulie 2016, Constanta, Romania,	Valentin ION, Nicu D. SCARISOREANU, Floriana CRACIUN, Ruxandra BIRJEGA, Adrian BERCEA, Antoniu MOLDOVAN, Valentina DINCA, Maria DINESCU, Livia. E. SIMA, Madalina. ICRIVERZI, Anca ROSEANU,
128.	Dielectric materials grown as thin films by pulsed laser deposition, ORAL	16th International Balkan Workshop on Applied Physics and Materials Science (IBWAP), 7-9 Iulie, 2016, Constanta, Romania)	M. Filipescu, S. Nistor, L. C. Nistor, V. Ion, M. Dinescu
129.	Laser processing of Ni heaters on PDMS supports for applications in PCR microfluidic devices - POSTER	Advanced Functional Materials 2016, Jeju South Koreea, 8-11 August 2016	A. Palla Papavlu, F. Stokker, M. Filipescu, M. Dinescu

130.	Metal nanoparticles mobilization by laser based processes ORAL	Bucharest Faculty of Physics, book of abstract pag98 2016	A.I. Bercea, A. Ojeda-Gonzalez-Posada, X. Yao, A. Palla Papavlu,T. Acsente, G.Dinescu, T.Lippert, Maria Dinescu,
131.	In vitro testing of graphene based composite coatings obtained by Matrix Assisted Pulsed Laser Evaporation - POSTER presentation EMRS2016 C.PII.2	EMRS 2016, Laser-material interactions for tailoring future applications Symposium, May 2-6, Lille, France -	V. Mitran, V. Dinca, L. Rusen, A. Bonciu, S. Brajnicov, L.N. Dumitrescu, M. Dinescu, A. Cimpean
132.	"Characterization and degradation behavior of hybrid coatings obtained by matrix assisted pulsed laser evaporation", s2 p4, page 89 POSTER	16th International Balkan Workshop on Applied Physics and Materials Science (IBWAP),7-9 July, 2016,	S. Brajnicov, V. Ion , V. Marascu, L. Rusen , V. Dinca and M. Dinescu
133.	"Multifunctional coatings obtained by Matrix Assisted Pulsed Laser Evaporation", POSTER	5th Venice International School on Lasers in Materials Science - SLIMS, July 10-17, 2016, Isola di San Servolo, Venice, Italy	S. Brajnicov, V. Dinca, V. Marascu, L. Rusen, P. Neacsu, A. Cimpean and M. Dinescu,
134.	"Tunability of the surface morphology of plcl-peg-plcl co-polymer coatings deposited by matrix assisted pulsed laser evaporation", ORAL	Bucharest University Faculty of Physics 2016 Meeting, 10:00 - 10:15.	S. BRAJNICOV, V. MARASCU, V. DINCA and M. DINESCU,
135.	"Copolymer PLCL-PEG-PLCL functional bio-coating obtained by Matrix Assisted Pulsed Laser Evaporation: a deposition parametric study", POSTER	10th International Conference on Photoexcited Processes and Applications - ICPEPA10, August 29 – September 2, 2016, Brasov, Romania, Book of Abstracts p. 83	S. Brajnicov, V. Marascu, L. Rusen, A. Moldovan, V. Dinca and M. Dinescu,
136.	"Polyvinylideneflouride thin films deposited by MAPLE", 10th International Conference on Photoexcited Processes and Applications - POSTER	ICPEPA10, August 29 – September 2, 2016, Brasov, Romania, Book of Abstracts page 95	L.N.Dumitrescu, I.Tirca1 , V.Ion, A. Moldovan, V.Marascu, V.Dinca, M. Dinescu,
137.	"In vitro degradability and bioactivity of hybrid coatings containing Lactoferrin and Hydroxyapatite embedded in a copolymer matrix" POSTER	10th International Conference on Photoexcited Processes and Applications - ICPEPA10, August 29 – September 2, 2016, Brasov, Romania, Book of Abstracts p. 109	M. Icriverzi, L. E. Sima, L. Rusen, S. Brajnicov, V. Ion, A. Bonciu, L.N. Dumitrescu, M. Dinescu, A. Cimpean, A. Roseanu, V. Dinca,
138.	"In vitro biological performance of multifunctional composite coatings", POSTER	10th International Conference on Photoexcited Processes and Applications - ICPEPA10, August 29 – September 2, 2016, Brasov, Romania, Book of Abstracts page 132	P. Neacsu, V. Dinca, S. Brajnicov, V. Marascu, L. Rusen, L.N. Dumitrescu, M. Dinescu and A. Cimpean,

139.	"Mesenchymal stem cells osteogenic fate on excimer lasersdesigned bone pits topographies", POSTER	10th International Conference on Photoexcited Processes and Applications - ICPEPA10, August 29 – September 2, 2016, Brasov, Romania, Book of Abstracts page 157	L. E. Sima, M. Icriverzi, K. Bohlen, E.C. Siringil, T. Jäger5, K. Wasmer, P. Hoffmann, M. Dinescu, A. Roseanu, A. Cimpean, V. Dinca,
140.	"Hybrid organic chromophores-layered double hydroxide thin films deposited via laser techniques" POSTER nr. Y.P1.25	EMRS Fall 2016 Conference,	A. Vlad, R. Birjega, A. Matei, I. Tirca, R. Zavoianu, O.D.Pavel , M.C.Corobea, M. Dinescu
141.	Biocompatibility studies on (Ba1−xCax)(ZryTi1−y)O3 thin films growth by Matrix Assisted Pulsed Evaporation, POSTER C.PI.57	EMRS spring meeting , 2-6 Mai 2016, Lille, Franta sectiunea C - Laser-material interactions for tailoring future applications -	N.D. SCARISOREANU , M. ICRIVEZI, L.E. SIMA, A.I. BERCEA , V. DINCA , V. ION , A. ROSEANU and M. DINESCU,
142.	Dielectric enhancement in (Ba1−xCax)(ZryTi1−y)O3 epitaxial strained thin films deposited by pulsed laser deposition, POSTER C.PI.58	EMRS spring meeting , 2-6 Mai 2016, Lille, Franta sectiunea C - Laser-material interactions for tailoring future applications	N.D.SCARISOREANU, A.I. BERCEA, V. ION, A. ANDREI, F. CRACIUN, R. BIRJEGA and M. DINESCU
143.	„Lead free epitaxial thin films of (Ba1−xCax)(ZryTi1−y)O3”,– *POSTER Y.P1.18*	EMRS Fall Meeting Varsovia Sept.2016	N.D. Scarisoneanu, V. Ion, A. Moldovan, A. Andrei, A.I. Bercea, F. Craciun, R. Birjega and M. Dinescu
144.	„Lead free (Ba1−xCax)(ZryTi1−y)O3 thin films for biocompatible applications”– POSTER Y.P1.19	EMRS Fall Meeting Varsovia Sept.2016	V. Ion, N.D. Scarisoreanu, F. Craciun, R. Birjega, A. Bonciu, A. Moldovan, V. Dinca, L.E. Sima, M. Icriverzi, A. Roseanu, M. Dinescu
145.	Biocompatibility studies on (Ba1−xCax)(ZryTi1−y)O3 thin films obtained by laser deposition methods, – POSTER	ICPEPA 2016, 29.08-02.09.2016, Brasov, Romania P 92	V. Ion, , N.D. Scarisoreanu, , F. Craciun, R. Birjega, A. Bercea, A. Bonciu, A. Moldovan, V. Dinca, M. Dinescu, L.E. Sima, M. Icriverzi, A. Roseanu
146.	Strain induced nanoscale phase fluctuations for enhanced dielectric behavior of (1-x)Ba(Zr0.2Ti0.8)O3–x(Ba0.7Ca0.3)TiO3(x = 0.45) epitaxial thin films,– POSTER P114	ICPEPA 2016, 29.08-02.09.2016, Brasov, Romania P 92	N.D. Scarisoreanu, V. Ion, A. Bercea, A. Moldovan, A. Andrei, F. Craciun, R. Birjega, M. Dinescu
147.	Dielectric materials grown as thin films by pulsed laser deposition,	(HPLA), 4 - 7 Aprile 2016, Santa Fe, New Mexico	M. Filipescu, S. Nistor, L. C. Nistor, V.

	High Power Laser Ablation and Directed Energy Symposium POSTER presentation		Ion, C. Luculescu, M. Dinescu
148.	Antireflective coatings grown as thin films by pulsed laser deposition, Advanced Functional Materials (AFM), (POSTER presentation)	Symposium: S2: Metal oxide, carbon, nitrides etc based thins films, 8-11 August 2016, Coreea, Jeju	M. Filipescu, V. Ion, F. Stokker-Cheregi, C. Luculescu, M. Dinescu
149.	Dielectric thin films obtained by laser-plasma methods for high power laser optics, (POSTER presentation)	10th International Conference on Photoexcited Processes and Applications (ICPEPA), August 29 – Septembrie 2, 2016, Brasov, Romania	M. Filipescu, A. Bercea, S. Nistor, L. C. Nistor, V. Ion, M. Dinescu
150.	Investigations of radiation effects in amorphous transparent and conductive oxides, INVITED presentation	, MRS, Phoenix-Arizona USA, March 28 – April 1 (2016).	V Craciun,
151.	Investigations of gamma and X-ray radiation effects in transparent and conductive oxides, POSTER presentation	TO BE „Towards Oxide-Based Electronics„ Warwick, UK , April 6-8 (2016).	G. Socol, G. Dorcioman, D. Craciun, P. Garoi, O. Fufa, A. C. Galca, M. Socol, D. Negut, V. Craciun,
152.	Investigations of radiation effects in TCO POSTER presentation	E-MRS, Lille-Franta, May 2- 6 (2016).	G. Socol, G. Dorcioman, D. Craciun, P. Garoi, O. Fufa, A. C. Galca, M. Socol, D. Negut, V. Craciun,
153.	Microstructure investigations of nanocrystalline ZrC and ZrN thin films irradiated by 800 keV Ar ions, ORAL presentation	E-MRS, Lille-Franta, May 2- 6 (2016).	D. Craciun, B. S. Vasile, G. Socol, D. Simeone, E. Lambers, D. Pantelica, P. Ionescu, H. Makino, V. Craciun
154.	Mechanical testing of diamond-like carbon double-layered films synthesized by pulsed laser deposition, POSTER presentation	E-MRS, Lille-Franta, May 2-6 (2016).	A. C. Popescu, L. Duta, C. Popescu, D. Cristea, V. Craciun
155.	LIBS investigations of aerosols in vacuum metallurgy, POSTER	E-MRS, Lille-Franta, May 2-6 (2016).	E. Axente, A. Stancalie, O. Fufa, D. E. Mihaiescu, R. Trusca, D. Sporea, V. Craciun
156.	Characteristics of nanostructured ZrCN and TiCN thin films grown by pulsed laser deposition, prez. ORALA	E-MRS, Lille-France, May 2-6 (2016)	D. Cristea, G. Socol, D. Craciun, D. Pantelica, P. Ionescu,B. S. Vasile, R. Trusca, V. Craciun

157.	Combinatorial pulsed laser deposition of ZrC-SiC thin films, prez. ORALA	E-MRS, Lille France, May 2-6 (2016)	G. Socol, D. Cristea, D. Craciun, G. Dorcioman, O.Fufa, L. Floroian, M. Badea, D. Pantelica, P. Ionescu, B.S. Vasile, V. Craciun
158.	Angular dependence of properties of PLD grown carbide and nitride thin films, ORAL presentation	E-MRS ,Lille France, May 2-6 (2016)	D. Craciun, G. Socol, D. Cristea, D. Pantelica, P. Ionescu, B. S. Vasile, R. Trusca, E. Lambers, V. Craciun
159.	Pulsed laser deposition of nanocrystalline and amorphous protective coatings, POSTER presentation	E-MRS, Lille-Franta, May 2- 6 (2016)	D. Craciun, G. Socol, G. Dorcioman, C. Radu, O. Fufa, D. Cristea, L. Floroian, M. Badea, D. Pantelica, P. Ionescu, V. Craciun,
160.	Investigations of radiation effects in amorphous and nanostructured thin films, INVITED presentation	invited, IC4N-Porto- Heli Greece , June 26-30 (2016).	D. Craciun, G. Socol, S. Behdad, B. Boesl, E. Lambers, D. Pantelica, P. Ionescu, B. Vasile, H. Makino, L. M. Trinca, A. C. Galca, D. Simeone, V. Craciun
161.	Angular dependence of structure and stoichiometry of carbide and nitride thin films grown by PLD, POSTER	, IC4N, Porto- Heli Greece, June 26-30 (2016)	D. Craciun, O. Fufa, G. Socol, D. Cristea, D. Pantelica, P. Ionescu, B. S. Vasile, R. Trusca, E. Lambers, V. Craciun
162.	Pulsed laser deposition of nanocrystalline and amorphous protective coatings for Ti implants, POSTER,	IC4N, Porto- Heli Greece, June 26-30 (2016).	G. Socol, V. Craciun, G. Dorcioman, C. Radu, O. Fufa, D. Cristea, L. Floroian, M. Badea, D. Pantelica, P. Ionescu, R.C. Popescu, D. Craciun,
163.	Investigations of radiation effects in pulsed laser deposited thin films, ORAL	ICPEPA Brasov, Romania, August 29 – September 2 (2016).	D. Craciun , G. Socol , S. Behdad , B. Boesl , E. Lambers , D. Pantelica, P. Ionescu, B. S. Vasile, H. Makino, L. M. Trinca, A. C. Galca, D. Simeone, V. Craciun

164.	Effects of the Deposition Geometry on Structure and Stoichiometry of PLD Grown Films, POSTER presentation	, ICPEPA, Brasov, August 29 – September 2 (2016)	D. Craciun, O. Fufa, G. Socol, D. Cristea, D. Pantelica, P. Ionescu, R. Trusca, E. Lambers, V. Craciun
165.	Pulsed Laser Deposition of Nanocrystalline and Amorphous Biocompatible Protective Coatings, POSTER presentation	ICPEPA, Brasov, August 29 – September 2 (2016)	V. Craciun, G. Socol, G. Dorcioman, C. Radu, O. Fufa, D. Craciun, D. Cristea, L. Floroian, M. Badea, D. Pantelica, P. Ionescu, R.C. Popescu, B. S. Vasile , R. Trusca
166.	Investigations of gamma and X-ray radiation effects in transparent and conductive oxides, ORAL presentation	6th International Symposium on Transparent Conductive Materials, Platanias-Chania Crete, Grecia, October 9-13 (2016).	V Craciun
167.	Lateral inhomogeneity in PLD deposited thin oxides, COST "TO-BE", ORAL presentation	Ljubljana Slovenia, Sept 27 – Oct 1 (2016)	V. Craciun
168.	Lateral structural and compositional variations in PLD grown films, ORAL presentation	E-MRS Fall Meeting, Warsaw Poland, Sept. 19-22 (2016)	D. Craciun, O. Fufa, G. Socol, D. Cristea, D. Pantelica, P. Ionescu, R. Trusca, E. Lambers, V. Craciun,
169.	Investigations of radiation effects in indium zinc oxide films, POSTER	E-MRS Fall Meeting Warsaw Poland, September 19 – 22 (2016).	D. Craciun, G. Socol, G. Dorcioman, O. Fufa, C. Ticos, L. Truica, A. C. Galca, M. Socol, D. Pantelica, M. D. Dracea, H. Swart, C. Martin, V. Craciun,
170.	Investigations of ion irradiation effects on nanostructured ZrC and ZrN thin film, ORAL presentation	E-MRS Fall Meeting, Warsaw Poland, September 19-22 (2016).	D. Craciun, B. S. Vasile, G. Socol, D. Simeone, E. Lambers, D. Pantelica, P. Ionescu, H. Makino, C. Martin and V. Craciun,
171.	Synthesis and characterization of transparent amorphous oxide thin films, LUCRARE INVITATA	The 8th Int. Conf. on Materials Science and Condensed Matter Physics, Chisinau, Moldova, September 12-16 (2016).	A.C. Galca, L.M. Trinca, G. Socol, V. Craciun,
172.	Microstructural investigations of Ar ion irradiated nanostructured ZrC and ZrN thin films, POSTER	ICPAM-11, Cluj -Napoca, Sept 8-14 (2016)	BS Vasile, D Craciun, C Martin, V Craciun,

	presentation		
173.	Transparent amorphous oxide semiconductor thin films: synthesis, characterization and functionality, INVITED,	ICPAM-11th, Cluj-Napoca, Romania, September 8-14 (2016).	A.C. Galca, L.M. Trinca, G. Socol, V. Craciun,
174.	Radiation effects in nanostructured thin films, ORAL presentation	ICPAM-11th, Cluj-Napoca Romania, Sept 8-14 (2016)	D. Craciun, G. Socol, S. Behdad, B. Boesl, E. Lambers, D. Pantelica, P. Ionescu, B. S. Vasile, H. Makino, L. M. Trinca, A. C. Galca, D. Simeone, V. Craciun,
175.	Chalcogenide thin films prepared by radio frequency magnetron sputtering technique, POSTER presentation	ICPAM-11th, Cluj-Napoca Romania, Sept 8-14 (2016)	P Prepelita, I Stavarache, F Garoi, C Negrila, V Craciun,
176.	On the performances of laser-induced breakdown spectroscopy for quantitative steel analyses, POSTER presentation	ICPAM-11, Cluj-Napoca Romania, Sept 8-14 (2016)	E Axente, O Fufa, A Stancalie, DE Mihaiescu, R Trusca, D Sporea, A Bodea, B Verdes, G Dorcioman, G Socol, V Craciun, J Hermann,
177.	Investigations of radiation effects in amorphous and transparent indium zinc oxide films, POSTER presentation	ICPAM-11, Cluj -Napoca Romania, September 8-14 (2016).	G Dorcioman, D Craciun, O Fufa, G Socol, C Ticos, L Truica, AC Galca, M Socol, H Swart, C Martin, V Craciun,
178.	Structural and compositonal lateral variations in PLD films, POSTER presentation	ICPAM, Cluj Napoca, Romania, September 8-14 (2016).	D Craciun, G Socol, D Cristea, D Pantelica, P Ionescu, R Trusca, E Lambers, V Craciun,
179.	„Boron-phosphate sol-gel thin films doped with dysprosium and therbium ions"; Conferinta Internationala " ORAL presentation	8th Materials Science and Condensed Matter Physics - MSCMP", 12-16 septembrie 2016, Chisinau Republica Moldova Abstract Book, ISBN p. 119	B.A. Sava, L. Boroica, M. Elisa, R.C.C. Monteiro, O. Shikimaka, D. Grabco, R. Iordanescu, V. Kuncser,
180.	„Fracture toughness and hardness at micro- and nanoindentation of phosphate glasses depending on their composition" Conferinta Internationala " POSTER presentation	8th Materials Science and Condensed Matter Physics - MSCMP", 12-16 septembrie 2016, Chisinau Republica Moldova Abstract Book, ISBN p. 175;	M. Popa, O. Shikimaka, D. Grabco, B.A. Sava, L. Boroica, M. Elisa, C. Pyrtsac, Z. Barbos, I. Belei

181.	„Prolonged holding and cyclic loading indentation of aluminophosphate glass: kinetics of deformation", ,Conferinta Internationala " ORAL presentation	8th Materials Science and Condensed Matter Physics - MSCMP", 12-16 septembrie 2016, Chisinau Republica Moldova Abstract Book, ISBN p. 181	I. Belei, O. Shikimaka, D. Grabco, B.A. Sava, L. Boroica, M. Elisa, C. Pyrtsac, A. Prisacaru, M. Popa,
182.	"Spin coating depositions from sol-gel rare-earth doped boron-phosphate systems", POSTER presentation	Conferinta Internationala „Society of Glass Technology Centenary Conference & European Society of Glass Science and Technology 2016 Conference, Glass – Back to the Future!", Sheffield, UK, 4–8 September 2016 Abstract Book, p. 401-402	B.A. Sava, L. Boroica, M. Elisa, R.C.C. Monteiro, O. Shikimaka, D. Grabco, I. Belei, R. Iordanescu, S. Brajnicov, V. Kuncher
183.	"Structural, morphological and magnetic properties of Ce3+ and Tb3+- doped silico-phosphate sol-gel thin films", POSTER presentation	Conferinta Internationala Society of Glass Technology Centenary Conference & European Society of Glass Science and Technology 2016 Conference, Glass – Back to the Future!", Sheffield, UK, 4–8 September 2016 Abstract Book, p. 399-400.	C. R. Iordanescu, M. Elisa, I. C. Vasiliu, B. A. Sava, L. Boroica, M. Valeanu, V. Kuncser, A. Beldiceanu, A. Volceanov, M. Eftimie
184.	Biocompatible HAp–Ag nanostructured coatings for titanium implants, POSTER presentation	10th ICPEPA, 2016, Brașov, Romania – poster presentation	Fufă, O., Socol, G., Grumezescu, A.M., Andronescu, E., Socol, M., Popescu, R.C., Holban, A.M
185.	Biocompatible protective HAp–Ag coatings for titanium implants, ORAL presentation	SICHEM, 2016, Bucharest, Romania –	Fufă, O., Socol, G., Grumezescu, A.M., Andronescu, E., Trușcă, R., Vasile, B.Ș. Socol, M, Popescu, R.C., Holban, A.M.
186.	"Structural and thermal study of Sn-based nanocomposite powders obtained by one-step laser pyrolysis", POSTER	25th Symposium of Thermal Analysis and Calorimetry "Eugen Segal", Bucharest, Romania, April 15, 2016	F. Dumitrache, A. Rotaru, C. Fleaca, I. Morjan, E. Dutu, A.-M. Niculescu, A. Ilie, E. Vasile
187.	"Structural evolution during air annealing of maghemite nanoparticles synthesized by laser pyrolysis" POSTER	25th Symposium of Thermal Analysis and Calorimetry "Eugen Segal", Bucharest, Romania, April 15, 2016	F. Dumitrache, C. Fleaca, P. Rotaru, I. Morjan, A.-M. Niculescu
188.	"High photocatalytic performances of TiO2/SnO2 nanocomposites prepared by laser pyrolysis" POSTER	E-MRS Spring Meeting, Lille, France, May 2-6, 2016	M. Scarisoreanu, C. Fleaca, I. Morjan, A.-M. Niculescu, C. Luculescu, I. Morjan, E. Dutu, A. Ilie, E. Vasile, I. Fort
189.	"Laser pyrolysis synthesized SnOx-SiO2 nanoparticles for Li-ion battery anodes" POSTER	E-MRS Spring Meeting, Lille, France, May 2-6, 2016	C. Fleaca, F. Dumitrache, C. Vlaic, I. Morjan, A. Bund,

			M. Stich, I. Sandu, E. Dutu, A. Ilie, A.-M. Niculescu, E. Vasile
190.	"Structural, magnetic and optical properties of Fe-doped titania-silica nanoparticles synthesized by laser pyrolysis in oxygen-deficient environments from vapor-phase precurs" POSTER	E-MRS Spring Meeting, Lille, France, May 2-6, 2016	C. Fleaca, M. Scarisoreanu, I. Morjan, C. Luculescu, A.-M. Niculescu, E. Dutu, G. Filoti, E. Vasile
191.	"Nanoparticles with Fe based core and Si(C) shell synthesized by laser pyrolysis" POSTER	E -MRS Spring Meeting, Lille, France, May 2-6, 2016	F. Dumitrache, C. Fleaca, S. Pop, I. Morjan, I.P. Morjan, A. Badoi, E. Vasile, D. Marta, L. Vekas, O. Marinica
192.	"Cobalt doped and undoped mixed tin oxides nanopowders synthesised by laser pyrolysis" POSTER	E -MRS Spring Meeting, Lille, France, May 2-6, 2016	F. Dumitrache, C. Fleaca, E. Dutu, C. Vlaic, A. Ilie, A.-M. Niculescu, M. Scarisoreanu, E. Barna, I. Morjan, E. Vasile, A. Bund, M. Stich
193.	Principal Component Analysis of Raman spectra for Nanoparticle Auto-Classification, POSTER	ICPEPA-10: 10th International Conference on Photoexcited Processes and Applications, august 29 – september 2, 2016, Brasov, Romania	Alina Ilie , Scarisoreanu Monica, Ion Morjan, Dutu Elena
194.	"Crystal litography: a new approach of solid surface patterning" POSTER	16th Int. Balkan Workshop on Applied Physics and Materials Science - IBWAP 2016, Constanta, Romania, July 6-9, 2016	I. Sandu, I. Urzica, A.-M. Niculescu, C.T. Fleaca, F. Dumitrache, M. Badiceanu
195.	"Self-organization of single-crystals as ripple patterns through laser ablation of ionic salts solutions" POSTER	10th Int. Conf. on Photoexcited Processes and Applications (ICPEPA-10), Brasov, Romania, August 29 – September 2, 2016	I. Sandu, I. Urzica, A. M. Niculescu, C. T. Fleaca, F. Dumitrache, M. Badiceanu
196.	"Al doped zinc oxide nanoparticles synthesized by laser pyrolysis" POSTER	6th Int. Symposium on Transparent Conductive Materials TCM, Platanias-Chania, Crete, Greece, Oct. 9-13, 2016	F. Dumitrache, I. Morjan, C. Fleaca, E. Dutu, C. Luculescu, C.I. Locovei, E. Vasile
197.	"Efficient light-induced spatial phase modulation in dye-doped DNA biopolymers" LUCRARE INVITATA	14th Intl. Conf. on Frontiers of Polymers and Advanced Materials, Daejeon, Korea, Oct. 31 – Nov.4, 2016	A. Petris, P. Gheorghe, V. I. Vlad, I. Rau, A. M. Manea, F. Kajzar
198.	"Measurement of the light-induced phase modulation in DNA biopolymer doped with different chromophores" / LUCRARE	NABM 2016 - Fifth Intl. Workshop on Advanced Nano- and Biomaterials and Their Device Applications, Sept. 21 – 25, 2016,	A. Petris, P. Gheorghe, V. I. Vlad, I. Rau, A. M. Manea, F. Kajzar

	INVITATA,	Constanta, Romania	
199.	"Light-induced spatial phase modulation in films of DNA-CTMA-DR1 investigated using a pump – probe interferometric method" / LUCRARE INVITATA,	10th Intl. Conf. on Photoexcited Processes and Applications, Aug. 31, 2016, Brasov, Romania	A. Petris, P. Gheorghe, V. I. Vlad, I. Rau, A. M. Manea, F. Kajzar
200.	"Thin diffraction gratings photoinduced in DNA-CTMA-RhB films" / LUCRARE ORALA,	NABM 2016 - Fifth Intl. Workshop on Advanced Nano- and Biomaterials and Their Device Applications, Sept. 21 – 25, 2016, Constanta, Romania	P. Gheorghe, A. Petris, V. I. Vlad, I. Rau, F. Kajzar, A. M. Manea
201.	Multifunctional core-shell Fe3O4 nanoparticle thin films with antimicrobial activity for biomedical applications, prezentare POSTER	E-MRS Spring Meeting 2016, Symposium R: Multifunctional nanostructures for diagnostic and therapeutic of diseases May 2-6, 2016 Lille, France. –	D. Istrati, R. Cristescu, G. Dorcioman, C. Popescu, G. Socol, M.C. Chifiriuc, C. Bleotu, A.M. Grumezescu, B. Vasile, G. Voicu A. Fudulu, D.E. Mihaiescu, R. Narayan, and D.B. Chrisey,
202.	Iron oxide nanoparticles functionalized with limonene reduce the resistance and biofilm formation of Pseudomonas aeruginosa, prezentare POSTER	E-MRS Spring Meeting 2016, Symposium R: Multifunctional nanostructures for diagnostic and therapeutic of diseases May 2-6, 2016 Lille, France. –	Alina Maria Holban, Rodica Cristescu, Valentina Grumezescu, Crina Saviuc, Lia Mara Ditu, Carmen Curutiu, Alexandru Grumezescu, Mariana Carmen Chifiriuc, Veronica Lazar
203.	MAPLE fabricated thin films based on functionalized magnetite nanoparticles embedded into poly(lactic-co-glycolic acid) spheres with improved resistance to microbial colonization, prezentare POSTER	E-MRS Spring Meeting 2016, Symposium C: Laser-material interactions for tailoring future applications, May 2-6, 2016 Lille, France.	V. Grumezescu, R. Cristescu, A.M. Holban, M.C. Chifiriuc, A.M. Grumezescu, R. Trusca, F. Iordache, G. Socol
204.	Improved stability of LSCF thin films cathode with Gd-doped ceria interface deposited by PLD on YSZ electrolyte -POSTER	10th International Conference on Photoexcited Processes and Applications, August 29 - September 2, 2016, Brasov, Romania, Nucleus programme - contract 4N/2016 & Partnership project PN-II-PT-PCCA-2011-3.1-	R. Pascu1, G. Epurescu1, S. Somacescu2, N. Cioatera3, S. Brajnicov1, R. Birjega1, C. Luculescu1, B. Mitu1

		1423, contract 26/2012.	
205.	"Heavy metals impact: effect on plants" ORAL	The Food Factor I Barcelona Conference, 02-04 November, 2016, Barcelona, Spain, no. 203	Popa, C;Petrus,M; Bratu AM;Matei C; Banita S; Patachia M;Stoica M.; Litescu SC; Dumitras DC.
206.	"Laser photoacoustic spectroscopy in evaluating the heavy metals metabolism in fruits by monitoring gaseous compounds" POSTER	The Food Factor I Barcelona Conference, 02-04 November, 2016, Barcelona, Spain, No.207	M. Bercu (Petrus), C. Achim (Popa), A.M. Bratu, M. Patachia, S. Banita, C. Matei and D.C. Dumitras.
207.	"Integrated Diffuse Optical Tomography and Hyperspectral Fluorescence System for Tumor Assessment" ORAL	The 24th Annual International Conference on Advanced Laser Technologies ALT'16 Galway, Ireland, September 12–16, 2016, No. LDS-1-4.	C.E. Matei, M. Patachia, S. Banita, M. Petrus, C. Achim, D.C. Dumitras.
208.	"Laser spectroscopy method for non-invasive analysis of breath in subjects with pulmonary disease". POSTER	The 24th Annual International Conference on Advanced Laser Technologies ALT'16 Galway, Ireland, September 12–16, 2016/No. LDS-P-7.	M. Bercu (Petrus), C. Achim (Popa), A.M. Bratu, M. Patachia, S. Banita, C. Matei,and D.C. Dumitras.
209.	"Impact evaluation of heavy metals at contaminated plants and fruits using IR spectroscopy" POSTER	The 24th Annual International Conference on Advanced Laser Technologies ALT'16 Galway, Ireland, September 12–16, 2016/No. PA-P-3.	C. Achim (Popa), M. Bercu (Petrus), A.M. Bratu, C. Matei, M. Patachia, D.C. Dumitras.
210.	"Photoacoustic investigation of the air quality using microwave field" POSTER	Black Sea from Space Workshop, 28-30 September, 2016, Constanta, Romania NO.17 (ID:161).	Mogildea, M; Mogildea, G; Achim (Popa), C.
211.	„Radiobiology Research Center at ELI-NP based on Laser Accelerated Proton Beam Irradiation". ORAL	2nd International Conference of the Romanian Society of Hadrontherapy (ICRSH 2016), 25-28 Feb. 2016, Sinaia, Romania	C. Matei, D.C. Dumitras, N. Verga, L. Craciun, R. Vasilache, M. Bercu, C. Popa.
212.	„Hybrid Imaging System for Tumor Monitoring associated with Radiation Therapy". ORAL	2nd International Conference of the Romanian Society of Hadrontherapy (ICRSH 2016), 25-28 Feb. 2016, Sinaia, Romania	C. Matei, D.C. Dumitras, N. Verga, M. Patachia, S. Banita, S. Miclos, S. Dontu.
213.	„Dual Imaging System for Tumor Assessment: Diffuse Optical Tomography and Hyperspectral Fluorescence". POSTER	10th International Conference on Photoexcited Processes and Applications, August 29 – September 2, 2016, Brasov, Romania.	C. Matei, M. Patachia, S. Banita, M. Bercu (Petrus), C. Achim (Popa), D.C. Dumitras.
214.	„Detector array for diagnosis and dosimetry of laser accelerated particle beams" POSTER	ELI and HiLASE Summer School ELISS 2016, 20-27 August 2016, HiLASE, Dolni Brezany, Czech Republic	R. Vasilache, C.E. Matei, A.M. Popovici.
215.	Surface Acoustic Wave Sensors based on Laser Deposited	The 8th edition of the International Conference "Advanced Topics in	C. Viespe

	Nanostructure Thin Films, ORAL	Optoelectronics, Microelectronics and Nanotechnologies" 25 - 28 august 2016, Constanta, Romania	
216.	Fabrication of a room-temperature H2S gas sensor based on SnO2 nanoporous films by pulsed laser deposition method, POSTER	6 th International Symposium on Transparent Conductive Materials, 9-13 Octombrie 2016, Creta-Grecia, Poster, Pag. 219, Abstract book	C. Viespe
217.	Surface Acoustic Wave Sensors based on a SnO2 nanoporous film deposited by pulsed laser deposition method for H2S detection, POSTER	Symposium Surface Acoustic Wave Sensor & Actuator Symposium 2016, 20-21 Octomber 2016, Dresden, Germania	C. Viespe
218.	Development of a Love Wave Surface Acoustic Waves Sensors for Detection of Contaminants in Food, ORAL	Internat. conference of Materials, oral Methods and Technologies, Elenite – Bulgaria, 26-30 iunie, 2016	C. Viespe
219.	"Single Pixel Camera with Compressive Sensing by Non-Uniform Sampling"; prez. ORALA	International Conference on Communications (COMM 2016), JUN 09-11, 2016; International Conference on Communications (ICC);	Petrovici M.A.; Damian C.; Udrea C.; Garoi F.; Coltuc D;
220.	"Microscopical and Raman investigations of periodical surface structures fabricated by picosecond visible laser irradiation of carbon thin films"", POSTER P47"	10th International Conference on Photoexcited Processes and Applications - ICPEPA-10, 29 August – 2 Septembrie, 2016, Brasov, Romania,	G. Dorcioman, C. Popescu, B. Bita, C. Besleaga, I. Zgura, C. Himcinschi, A. C. Popescu
221.	"Interaction of laser exposed non-antibiotic solutions with target surfaces in hypergravity conditions: ESA “Spin Your Thesis!” campaign" / ORAL	MicroMAST Spring School on Fundamentals of Surface Tension and Wetting, 16-20 May 2016, Brussels, Belgium	Simon, A.;
222.	"UV laser modified medicine solutions in interaction with target surfaces under hypergravity conditions" / ORAL	International OSA Network of Students, 20-22 May 2016, Québec, Canada	Simon, A.; Stoicu, A.; Tozar, T.; Andrei, I.R.; Pascu, M.L
223.	"Application of laser radiation exposed chlorpromazine for the treatment of pseudotumors induced in rabbit eyes" / POSTER	al 15-lea Congres National de Oftalmologie, 05.-08.10.2016, Sinaia, Romania	Cherecheanu AP; Tozar T; Geamanu A; Iancu R; Duta S; Pirvulescu RA
224.	"Application of laser radiation exposed chlorpromazine for the treatment of pseudotumors induced in rabbit eyes" / POSTER	EVER 2016, 5-8.10.2016 Nisa, Franta- Acta Ophthalmologica, 94: S256, 2016	Cherecheanu AP; Tozar T; Geamanu A; Iancu R; Duta S; Pirvulescu RA
225.	"Modeling of molecular electronic structures of medicines used to fight MDR acquired by bacteria" / POSTER	SPIE Optics+Photonics 2016, San Diego, California, Statele Unite ale Americii, 2016	Stoicu Alexandru, Tozar Tatiana, Pascu Mihail-Lucian
226.	Quantitative phase imaging of	Atom-N 2016, Constanta Romania	T. Kim, H. Majeed, V.

	neuronal networks with programmable illumination / POSTER		Nastasa, M. Shan, P. Sengupta, M. U. Gillette, G. Popescu,
227.	Quantitative phase imaging of neuronal networks with programmable illumination / POSTER, ICPEPA'10 2016, Brasov Romania	ICPEPA'10 2016, Brasov Romania	V. Nastasa, T. Kim, H. Majeed, M. Shan, P. Sengupta, M. U. Gillette, G. Popescu,
228.	Numerical analysis of spatial distortions in a chirped pulse amplification system - POSTER	ELI Summer School 2016, 21-26 August 2016, ELI Beamlines, Dolní Břežany, Czech Republic	L. Ionel
229.	Design of periodic structures in a multiple beam interference scheme using a spatial light modulator - POSTER	ICTP-Winter College in Otics, 15-26 February, 2016, Trieste, Italy	L. Ionel, M. Zamfirescu
230.	Prospective Studies for Combining Multi-PW Pulses - PREZENTARE ORALA	7th Conference of the International Committee on Ultrahigh Intensity Lasers, 11-16 September 2016, Montebello, QUÉBEC, CANADA	D. Ursescu, I. Dancus, L. Neagu, P. Ghenuche, E. Lalla, D. Stutman, R. Dabu, L. Ionel, R. Banici, G. Cojocaru, R. Ungureanu, S. Simion, J. D. Pisonero, C. Mendez, G. Gatti, L. Volpe
231.	Ultrafast time-resolved pump-probe investigation of LIPSS formation by multiple femtosecond laser pulses - POSTER	10th International Conference on Photoexcited Processes and Applications, august 29 – september 2, 2016, Brasov, Romania	L. Ionel; I. Dumitrache; I. Anghel; S. Sandel; M. Zamfirescu;
232.	Modeling the ultra-high intensity laser pulse – cone target interaction for ion acceleration at CETAL facility /PREZENTARE ORALĂ	ECLIM 2016, September 18-23, 2016, Moscow, Russia.	O. Budrigă, E. d'Humières
233.	Electron acceleration for space applications at the cetal-pw facility / LECŢIE INVITATĂ	Workshop on Complex Systems of Charged Particles and their Interaction with Electromagnetic Radiation, April 13-15 2016, Moscow, Russia	O. Budrigă, E. d'Humières, C. M. Ticoş
234.	Carbon thin films surface nanostructuring by picosecond laser irradiation (ORAL presentation)	E-MRS Spring Meeting 2016, Symposium C: Laser-material interactions for tailoring future applications, May 2-6, 2016 Lille, France.	A. C. Popescu, G. Dorcioman
235.	Synthesis of nanostructured tin/mesoporous carbon-materials as anodes for Li and Na ion batteries (prezentare ORALA).	GFECI 2016, 14-17 martie 2016, Valencay, Franta, P8, 15 martie 2016, 16h10.	Nita C., Matei Ghimbeu C., Permantier J., Monconduit L., Vix-Guterl C.

236.	Synthesis of mesoporous carbon-tin negative electrodes for Li and Na ion batteries (prezentare ORALA).	Carbocat VII, 12-17 iunie 2016, Strasbourg, Franta, 16 iunie 2016, 14h20.	Nita C., Matei Ghimbeu C., Permantier J., Monconduit L., Vix-Guterl C.
237.	Highly adherent biological hydroxyapatite thin films reinforced with various oxides and metals for implantology applications, POSTER C.PII.39	EMRS Spring Meeting Simpozionul C – Laser-material interactions for tailoring future applications, Lille, Franta, 2–6 Mai, 2016	L. Duta, G.E. Stan, G. Popescu-Pelin, F.N. Oktar, N. Mihailescu, I.N. Mihailescu, A.C. Popescu
238.	The influence of thickness upon the biocompatibility of Titanium Nitride thin films synthesized by Pulsed Laser Deposition, POSTER C.PI.34	EMRS Spring Meeting Simpozionul C – Laser-material interactions for tailoring future applications, Lille, Franta, 2–6 Mai, 2016	L. Duta, G.E. Stan, A.C. Popa, A.C. Popescu
239.	Functionalization of ultra-high molecular weight polyethylene acetabular cups with bioactive glass coatings synthesized by PLD, POSTER C.PII.40	EMRS Spring Meeting Simpozionul C – Laser-material interactions for tailoring future applications, Lille, Franta, 2–6 Mai, 2016	L. Duta, G. E. Stan, A. C. Popa, A. C. Popescu
240.	Comparative study between biological and synthetic hydroxyapatite thin films obtained by PLD for a new generation of implants, POSTER C.PII.39	EMRS Spring Meeting Simpozionul C – Laser-material interactions for tailoring future applications, Lille, Franta, 2–6 Mai, 2016	L. Duta, G.E. Stan, V. Grumezescu, C. Popescu
241.	Effect of deposition temperature upon multi-stage Pulsed Laser Deposition of Aluminum Nitride structures, POSTER C.PI.35	EMRS Spring Meeting Simpozionul C – Laser-material interactions for tailoring future applications, Lille, Franta, 2–6 Mai, 2016	L. Duta, G.E. Stan, M. Anastasescu, H. Stroescu, M. Gartner, Zs. Fogarassy, S. Bakalova, N. Mihailescu, A. Szekeres, I.N. Mihailescu, A.C. Popescu
242.	Mechanical testing of diamond-like carbon double-layered films synthesized by pulsed laser deposition, POSTER C.PII.29	EMRS Spring Meeting Simpozionul C – Laser-material interactions for tailoring future applications, Lille, Franta, 2–6 Mai, 2016	A.C. Popescu, L. Duta, C. Popescu, D. Cristea, V. Craciun
243.	In vitro assessment of reinforced biological hydroxyapatite thin films for implantology applications, POSTER P84	10-th International Conference on Photoexcited Processes and Applications (ICPEPA-10), Brasov, Romania, 29 August – 2 Septembrie, 2016	L. Duta, A.C. Popescu, G.E. Stan, G. Popescu-Pelin, I.N. Mihailescu, P.E. Florian, L.E. Sima, A. Roseanu, F.N. Oktar
244.	The effect of a “seed” layer upon multi-stage Pulsed Laser Deposition of Aluminum Nitride structures at different substrate temperatures, POSTER S05-P10	International Conference of Physical Chemistry (ROMPHYSCHEM 16), „Dunarea de Jos” University of Galati, Romania, 21–23 Septembrie, 2016	Liviu-Marian Duta, Hermine Maria Stroescu, George Stan, Mihai Anastasescu, Măriuca Gartner, Zsolt

			Fogarassy, Anna Szekeres, Ion Mihăilescu
245.	Structure and biocompatibility properties of hydroxyapatite coatings deposited by pulsed laser technique, prezentare ORALA	„6-th International Conference on Materials Science and Technology (ROMAT2016)", Bucuresti, Romania, 9–12 Noiembrie, 2016	Sorin Ciuca, Liviu Duta, Andrei Berbecaru, Mihai Branzei, Ruxandra Paunescu-Dumitrescu, Olivia Dobrica, Ioana Gherghescu
246.	"Microscopical and Raman investigations of periodical surface structures fabricated by picoseconds visible laser irradiation of carbon thin films", POSTER P47"	10th International Conference on Photoexcited Processes and Applications - ICPEPA-10, 29 August – 2 Septembrie, 2016, Brasov, Romania,	G. Dorcioman, C. Popescu, B. Bita, C. Besleaga, I. Zgura, C. Himcinschi, A. C. Popescu
247.	Solar-active photoatalytic tandem thin films for up-scaled advanced wastewater treatment- ORAL	7th Global Congress of Catalysis GCC-2016, 30 June- 02 July, 2016, Seul, Korea	A. Duta, A. Enesca, E. Gyorgy
248.	MAPLE of Graphene Oxide Nanocomposites POSTER presentation	10th International Conference on Photoexcited Processes and Applications, August 29 - September 2, 2016, Brasov, Romania	A. Queralto, A. Datcu, A. Pérez del Pino, E. György
249.	Titanium oxide / graphene oxide spin coated composite material for photocatalytic applications POSTER presentation	10th International Conference on Photoexcited Processes and Applications, August 29 - September 2, 2016, Brasov, Romania	A. Datcu, M. L. Mendoza, A. Pérez del Pino, C. Logofatu, C. Luculescu, E. György
250.	Laser based methods for the processing and immobilization of nanomaterials INVITED lecture	Session: Nano Technology Applications, 04, Energy Materials Nanotechnology (EMN) Meeting on Materials Chemistry, September 9-13, Budapest, Hungary	E. Gyorgy
251.	MAPLE deposition of nano-entities and composite nanomaterials INVITED lecture	Session: MAPLE and Materials Processing, invited lecture 02, International High Power Laser Ablation and Directed Energy Conference, 4-7 April 2016, Santa Fe, New Mexico, USA	E. Gyorgy
252.	Laser processing of low dimensional carbon-based materials- ORAL presentation	European Advanced Materials Congress, 23-25 August 2016, Stockholm, Sweden	A. Pérez del Pino, E. György
253.	Laser transfer and immobilization of nano-entities and nanocomposite materials ORAL presentation	European Advanced Materials Congress, 23-25 August 2016, Stockholm, Sweden	E. György, A. Pérez del Pino
254.	Properties of Ca- doped SrxBa1-xNb2O6 thin films growth by	EMRS fall meeting 19-22 septembrie 2016, Varsovia,	A. Andrei, G. Stanciu, N. D. Scarisoreanu, R.

	Pulsed Laser Deposition, POSTER	Pololonia,Y.P1.20	Birjega, A. Bercea , V. Ion , M. Dinescu
255.	Q-switched microchip MOPA generating 100 ps pulses at 532 nm / poster	SPIE Photonics West 2016, Solid State Lasers XXV: Technology and Devices, Conference 9726, Paper 9726-75, 13-18 February 2016, San Francisco, USA	J. Nikkinen, A. Härkönen, I. Leino, V.-M. Korpijärvi, G. Salamu, M. Guina
256.	Nonlinear optical borates suitable for crystal growth by Czochralski method frequency doubling and self-frequency doubling in the visible range / invited talk I-7	7th International Symposium on Optical Materials, 29 Feb. - 04 March 2016, Lyon, France	P. Loiseau, F. Khaled, G. Aka, L. Gheorghe, F. Voicu, G. Salamu, A. Achim, N. Pavel
257.	Transparent Nd:YAG Ceramic Media / poster presentation	3rd International School and Conference “Saint Petersburg OPEN 2016”, 28-30 March, Saint Petersburg, Russia, 2016	C.-A. Stanciu, T. Dascalu, G. Stanciu, N. Pavel
258.	The effect of laser ignition on a homogenous lean mixture of an automotive gasoline engine,” / oral presentation	The 4th Laser Ignition Conference, 17-20 May 2016, Pacifico Yokohama, Yokohama, Japan, presentation LIC6-2 (page 78 of http://opicon.jp/wp-content/uploads/2016/05/OPIC2016FinalProgram.pdf)	A. Birtas, G. Croitoru (Salamu), M. Dinca, T. Dascalu, N. Boicea, N. Pavel
259.	Passively Q-switched Nd:YAG/Cr^{4+}:YAG laser with multiple-beam output / poster presentation	The 4th Laser Ignition Conference, 17-20 May 2016, Pacifico Yokohama, Yokohama, Japan, presentation LICp-1. (page 101 http://opicon.jp/wp-content/uploads/2016/05/OPIC2016FinalProgram.pdf)	G. Croitoru (Salamu), O. V. Grigore, T. Dascalu, N. Pavel
260.	Power-scaling from burried depressed-cladding waveguides realized in Nd:YAG and Nd:YVO_4 by direct writing with a femtosecond-laser beam / invited presentation	The 16th International Balkan Workshop on Applied Physics, 7-9 July, 2016, Constanta, Romania; Book of Abstracts, pp. 77-78 (S2 L3)	G. Croitoru (Salamu), N. Pavel, T. Dascalu, F. Jipa, M. Zamfirescu
261.	Synthesis and characterization of SrY_2O_4 samples doped with rare earth ions / poster presentation	The 16th International Balkan Workshop on Applied Physics, 7-9 July, 2016, Constanta, Romania; Book of Abstracts, pp. 29-30 (S1 P4)	A. M. Voiculescu, C. Matei, C. Stanciu, S. Georgescu
262.	Structural and optical properties of Neodymium-doped Yttrium Aluminum Garnet (Nd:YAG) transparent ceramics / poster presentation	The 16th International Balkan Workshop on Applied Physics, 7-9 July, 2016, Constanta, Romania; Book of Abstracts, pp. 39-40 (S1 P21)	G. Stanciu, C. A. Stanciu, A. Stefan, T. Dascalu, S. Georgescu
263.	Crystal growth and spectroscopic investiogations of Sm^{3+} doped CNGG and CLNGG single crystals / poster presentation	The 16th International Balkan Workshop on Applied Physics, 7-9 July, 2016, Constanta, Romania; Book of Abstracts, p. 65 (S1 P58)	S. Hau, C. Gheorghe, L. Gheorghe, A. Achim, F. Voicu, M. Greculeasa, M. Enculescu, O. Toma

264.	Spectroscopic characterization of $LaGaO_3$:Er synthesized by solid state reaction / poster presentation	The 16th International Balkan Workshop on Applied Physics, 7-9 July, 2016, Constanta, Romania; Book of Abstracts, p. 70 (S1 P66)	C. Matei, S. Georgescu, A. M. Voiculescu, O. Toma
265.	Improving monocromaticity of green upconversion luminescence by codoping Eu^{3+} ions in $CaSc_2O_4$:$H0^{3+}$:Yb^{3+} / poster presentation	The 16th International Balkan Workshop on Applied Physics, 7-9 July, 2016, Constanta, Romania; Book of Abstracts, pp. 166-167 (S5 P9)	A. Stefan, O. Toma, S. Georgescu
266.	Role of defects in shaping the emission of Ln doped CeO_2 / poster presentation	2016 International Conference on Defects in Insulating Materials (ICDIM 2016)", 10-15 July 2016, Lyon, France; presentation Th-P-16	D. Avram, B. Cojocaru, M. Florea, I. Porosnicu, V. Parvulescu, and C. Tiseanu
267.	Excited-state absorption in erbium-doped ceramic langatate / poster presentation	2016 International Conference on Defects in Insulating Materials (ICDIM 2016), 10-15 July 2016, Lyon, France	O. Toma, S. Georgescu, A. Stefan
268.	Excited-state absorption in Er-doped partially disordered calcium lithium niobium gallium garnet / poster presentation	2016 International Conference on Defects in Insulating Materials (ICDIM 2016), 10-15 July 2016, Lyon, France	O. Toma, S. Georgescu
269.	Dynamics of Sensitization in (Cr,Nd,Yb):YAG Ceramics / poster presentation	9th International Conference on Dynamical Processes in Excited States of Solids (DPC'16), 17-22 July, Paris, France	V. Lupei, A. Lupei, C. Gheorghe, S. Hau, A. Ikesue
270.	Electron-phonon interaction of Pr^{3+} and Sm^{3+} in YAG / poster presentation	9th International Conference on Dynamical Processes in Excited States of Solids (DPC'16), 17-22 July, Paris, France	A. Lupei, V. Lupei, S. Hau, C. Gheorghe, A. Ikesue
271.	Peculiarities of $Er^{3+} \leftrightarrow Yb^{3+}$ energy transfer in $CaSc_2O_4$:Er:Yb / poster presentation	19th International Conference on Dynamical Processes in Excited States of Solids (DPC 2016), 17-22 July, 2016, Paris, France; Book of Abstracts, p. 202 (P29)	A. Stefan, S. Georgescu, O. Toma
272.	High-power operation in circular buried depressed-cladding waveguides inscribed in Nd:YAG and Nd:YVO_4 by femtosecond-laser beam / oral presentation	7th EPS-QEOD EUROPHOTON CONFERENCE, Solid State, Fibre, and Waveguide Coherent Light Sources, 21-26 August, 2016, Vienna, Austria; presentation FWG-4.4	G. Croitoru, T. Dascalu, F. Jipa, M. Zamfirescu, N. Pavel
273.	Edge-pumped Nd:YAG/YAG lens-shaped composite laser / poster presentation	7th EPS-QEOD EUROPHOTON CONFERENCE, Solid State, Fibre, and Waveguide Coherent Light Sources, 21-26 August, 2016, Vienna, Austria; presentation PO-2.1	O. V. Grigore, G. Croitoru, T. Dascalu, M. Dinca, N. Pavel
274.	Czochralski growth and NLO properties of incongruent melting	7th EPS-QEOD EUROPHOTON CONFERENCE, Solid State, Fibre,	L. Gheorghe, F. Khaled, A. Achim, F.

	$La_xGd_ySc_z(BO_3)_4$ (x +y + z = 4) crystal / poster presentation	and Waveguide Coherent Light Sources, 21-26 August, 2016, Vienna, Austria; presentation PO-2.27	Voicu, P. Loiseau, G. Aka
275.	Multiple-Beam Output High-Peak Power Nd:YAG/Cr^{4+}:YAG Laser for Laser Ignition / poster presentation	International Conference on Space Optics, ICSO 2016, 18-21 Oct. 2016, Biarritz, France; presentation 254	T. Dascalu, G. Croitoru, O. V. Grigore, N. Pavel
276.	Properties of Ca-doped $Sr_xBa_{1-x}Nb_2O_6$ thin films growth by Pulsed Laser Deposition / poster presentation	E-MRS 2016 Fall Meeting, 19-22 September, Warsaw, Poland; presentation Y.P1.20	A. Andrei, G. Stanciu, N. D. Scarisoreanu, R. Birjega, A. Bercea, V. Ion, M. Dinescu
277.	Optical and electrical properties of Ca-doped $Sr_xBa_{1-x}Nb_2O_6$ thin films by PLD for pyroelectric devices / poster presentation	E-MRS 2016 Spring Meeting, 2-6 May, Lille, France; presentation C.PI.59	N. D. Scarisoreanu, R. Birjega, A. Bercea, V. Ion, G. Stanciu, M. Dinescu
278.	Yb^{3+}:YAG transparent ceramics as active media for diode-pumped lasers / poster presentation	*6th International Conference on Excited States of Transitions Elements, ESTE 2016, 21-26 August, 2016, Polanica Zdrój, Poland, presentation P-41*	I. Vorona, R. Yavetskiy, A. Doroshenko, S. Parkhomenko, A. Tolmachev, S. Hau, C. Gheorghe, G. Croitoru, L. Gheorghe
279.	Synthesis and characterization of porous hydrophilic/hydrophobic composite membranes	European Material Research Society – Spring Meeting, Lille, France, 2-6 May 2016, poster, cod EE.3.20	V. Satulu, B. Mitu, L. Kravets, G. Dinescu
280.	Plasma-induced graft polymerization of silver nanoparticles dispersed in ethylene glycol onto polymeric foils for antimicrobial surfaces	23rd Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), Bratislava, Slovakia, 12-16 July 2016, poster, cod P03-04-01.	V. Satulu, B. Mitu, V. Marascu, A. Lazea-Stoyanova, I. Sarbu, D. Pelinescu, S. Somacescu, G. Dinescu
281.	Plasma-induced graft polymerization of silver nanoparticles dispersed in ethylene glycol onto polymeric foils for antimicrobial surfaces	23rd Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), Slovakia, Bratislava, 12-16 July 2016, proceeding, ISBN 979-10-96389-02-5.	V. Satulu, B. Mitu, V. Marascu, A. Lazea-Stoyanova, I. Sarbu, D. Pelinescu, S. Somacescu, G. Dinescu
282.	The effects produced by two types of atmospheric pressure plasma sources on polymeric surfaces	15th International Conference on Plasma Surface Engineering, Garmisch-Partenkirchen, Germany, 12 - 16 September 2016, poster, cod PO1065	Dinescu G; Ionita ER; Nikiforov A Yu; Ionita MD; Morar M; Leys C
283.	Plasma in liquid processing of nanomaterials dispersion	15th International Conference on Plasma Surface Engineering, Garmisch-Partenkirchen, Germany, 12 - 16, September, 2016, poster, cod PO2018.	Dinescu G; Vizireanu S; Stoica SD; Ionita MD; Lazea-Stoyanova A; Luculescu C; Nistor L
284.	Imaging diagnostics of the	International Conference on	Teodorescu M;

	interaction of a filamentary plasma jet with liquids	Electrical Discharges with Liquids (ICEDL 2016), and the third annual meeting of COST Action TD1208 "Electrical Discharges with liquids for Future Applications, Turkey, 14-16 March, 2016, prezentare orala, cod WG2	Stancu C; Ionita R, Dinescu G
285.	Influence of H2 flow rate on the morphology of carbon films obtained by PECVD in a low pressure RF plasma jet	23rd Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), Bratislava, Slovakia, July 12-16, 2016 , poster, cod P03-04-03	S.D. Stoica, S. Vizireanu, C.R. Luculescu, M. Bazavan, G. Dinescu
286.	Influence of H2 flow rate on the morphology of carbon films obtained by PECVD in a low pressure RF plasma jet	23rd Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), Bratislava, Slovakia, July 12-16, 2016, proceeding	S.D. Stoica, S. Vizireanu, C.R. Luculescu, M. Bazavan, G. Dinescu
287.	Hybrid nanomaterials: combining carbon nanowalls, nanofibers, and particles	Gordon Conference, New Hampshire, SUA, July 23-30, 2016 , poster	S.D. Stoica, S. Vizireanu, T. Acsente, B. Mitu, G. Dinescu
288.	Growth of CNW:CNF bilayers by low pressure plasma jet deposition	European Material Research Society – Spring Meeting, Lille, France, May 2-6, 2016, poster	S.D. Stoica, S. Vizireanu, C.R. Luculescu, L.C. Nistor, G. Dinescu
289.	Synthesis and characterization of Tungsten particles obtained in controlled atmospheric plasma jet poster, cod P.1.5	The 5th International Colloquium "Physics of Materials" (PM-5), University "Politehnica" of Bucharest, Bucharest, Romania, November 10- 11, 2016,	V. Marascu, A. Lazea-Stoyanova, A. Bonciu, C. Stancu, B. Mitu, C. Constantin, G. Dinescu
290.	Production of tungsten particles from a radiofrequency plasma jet	29th Symposium On Fusion Technology (SOFT), Prague, Czech Republic, 5-9 September 2016, poster, cod P3.108	V. Marascu, A. Lazea-Stoyanova, C. Stancu, A. Bonciu, G. Dinescu
291.	Tungsten particles synthesis by atmospheric pressure plasma for controlled fusion research	13th Kudova Summer School "Towards fusion energy", Kudova, Poland,13-17 June 2016. Oral presentation	V. Marascu, A. Lazea-Stoyanova, M. Teodorescu, A. Bonciu, C. Stancu, G. Dinescu
292.	Plasma modification of nanostructured carbon electrodes for improved energy storage devices	European Material Research Society – Spring Meeting, Lille France, May 2-6.06.2016. poster EE-P8.14	S. Vizireanu, S.D. Stoica, M. D. Ionita, C.R. Luculescu, L.C. Nistor, G. Rimbu, G. Dinescu
293.	Nano- and micro-particles fabrication by plasma assisted physical processes	7th International Symposium on Plasma Nanoscience and Nanotechnology (iPlasmaNano-VII), Vavrona, Athens, Greece, 15-20 October 2016, invited lecture	G. Dinescu, V. Marascu, T. Acsente, A. Lazea-Stoyanova, S. Vizireanu, V.S. Teodorescu
294.	Bacteria inactivation in a liquid	International Conference on	L.G. Carpen, M.

	environment using filamentary argon plasma jet generated in ambient atmosphere	Electrical Discharges with Liquids (ICEDL 2016), the third annual meeting of COST Action TD1208 "Electrical Discharges with liquids for Future Application", 13-17.03.2016, Kocaeli, Turkey, poster	Teodorescu, L. M. Dițu, M.C. Chifiriuc, G. Dinescu
295.	Nanocomposite materials obtained by plasma techniques and their applications	European Material Research Society – Spring Meeting, Lille France, May 2-6.06.2016, prezentare invitata	B. Mitu, V. Satulu, S. Vizireanu, T. Acsente, L.C. Nistor, G. Dinescu
296.	Nanostructured carbon material growth on ceramic foams by Radiofrequency Plasma-Jet-Enhanced Chemical Vapor Deposition	European Material Research Society – Spring Meeting, Lille France, May 2-6.06.2016, poster, cod EE.8.30	S. Vizireanu, G. Dinescu, C.R. Luculescu, R. Birjega, R.Zavoianu, B. Cojocaru, A. Sarbu, T. Sandu, L. Mara
297.	Properties of poly(ethylene terephthalate) track membranes with polymer layer formed by magnetron sputtering of polytetrafluoroethylene in vacuum	XI International Conference "Vacuum Equipment, Materials and Technology." Congress & Exhibition Centre, Moscow, Russia. April 12-14, 2016. P. 190-194.	Kravets L.I., Altynov V.A., Akhmetsharipova T.K., Satulu V., Mitu B., Dinescu G
298.	Electrotransport properties of two-layer composite membranes	XX Mendeleev Congress on General and Applied Chemistry. Ekaterinburg, Russia, 26-30 September 2016. Vol. 3. P. 341.	Kravets L.I., Gilman A.B., Yablokov M.Yu., Satulu V., Mitu B., Dinescu G.
299.	Using the organic compounds for for plasma modification of polymer membrane properties	Russian Conference "Membranes-2016." Nizhniy Novgorod, Russia, October 10-14, 2016. P. 431-433.	Kravets L.I., Lizunov N.E., Satulu V., Mitu B., Dinescu G.
300.	Plasma surface modification of polypropylene track membrane to improve its performance properties	7th Inter. Workshop & Summer School on Plasma Physics, Kiten, Bulgaria, June 26 - July 2, 2016. P. 62.	Kravets L.I., Elinson V.M., Ibragimov R.G., Mitu B., Dinescu G.
301.	Formation of 'smart polymer membranes	XX Mendeleev Congress on General and Applied Chemistry, Ekaterinburg, Russia, 26-30 September 2016. Vol. 2a. P. 338.	Kravets L.I., Elinson V.M., Lazea-Stoyanova A., Dinescu G.
302.	Generation, properties and applications of atmospheric pressure radiofrequency plasma jets	6th International Conference on Advanced Plasma Technologies (ICAPT-6) / Workshop on Industrial Application of Plasma Solutions 11th to 15th / 15th to 18th December 2016, Siem Reap, Cambodia, invited lecture	Gheorghe Dinescu
303.	Plasma connected to Biomedicine: case studies	2nd Conference Future in Plasma Science II, February 15-18, Greifswald, Germany	G. Dinescu
304.	Tritiated and non tritated ITER-like tungsten particles: from synthesis to genotoxicity,Sfecologie	International Conference on Ecological Sciences, 24-27 October, 2016, Marseille, France	M. Sanles, S. Roche, F. Magdinier, B. Rousseau, G.

			Dinescu, N. Herlin, T. Ascente, G.Pieters, P. Delaporte, D. Vrel, J. Rose, V. Malard, C. Grisolia
305.	Titanium oxide particles obtained using an argon RF atmospheric plasma jet	15th International Conference on Plasma Surface Engineering, 12 - 16, September, 2016, Garmisch-Partenkirchen, Germany; PO1008	A. Lazea-Stoyanova, V. Marascu, C. Stancu, A. M. Vlaicu, V. S. Teodorescu, G. Dinescu
306.	Pulsed RF Atmospheric Plasma Jet for Synthesis of Copper Particles	Symposium NM6: Nanoscale Materials and Devices by High-Temperature Gas-Phase Processes, NM6.12.11, 2016 MRS Fall Meeting, 27th November-2nd December, 2016, Boston, Massachusetts, USA.	A. Lazea-Stoyanova, V. Marascu, M. Teodorescu, M. Enculescu, G. Dinescu
307.	Impact of HPHT diamond substrate and its preparation on charge carrier lifetime in phosphorus-doped CVD diamond layers	Hasselt Diamond Workshop 2016 SBDD XXI" – prezentare orala, cod 2.3	P. Pobedinskas, P. Ščajev, T.N. Tran Thi, A. Lazea-Stoyanova, K. Jarašiūnas, K. Haenen
308.	Carrier recombination dynamics in thick (110) phosphorus-doped CVD diamond layers - poster la Session 13: Poster session 2	27th International Conference on Diamond and Carbon Materials – DCM 2016, September 4-8, 2016, Le Corum, Montpellier, France" /	P. Pobedinskas, P. Ščajev, A. Lazea-Stoyanova, Y. Balasubramaniam, K. Jarašiūnas[3], K. Haenen
309.	Impact of HPHT substrates imperfections on the properties of phosphorus-doped CVD diamond layers prezentare orala, cod prezentare O16.3	27th International Conference on Diamond and Carbon Materials – DCM 2016, September 4-8, 2016 Le Corum, Montpellier, France" –	P. Pobedinskas P. Ščajev, T.N. Tran Thi, A. Lazea-Stoyanova, K. Jarašiūnas, K. Haenen
310.	Impact of HPHT Diamond Substrate on Charge Carrier Lifetime in Phosphorus-Doped CVD Diamond Layers- prezentare orala, cod EM12.4.05	MRS Fall Meeting & Exhibit", Boston, SUA, 27 noiembrie – 02 decembrie 2016	P. Pobedinskas, Patrik Scajev, Thu Nhi Tran Thi, A. Lazea-Stoyanova, Shannon Nicley, K. Jarasiunas, Ken Haenen
311.	Generation of polymeric layers in multipoint to plane corona discharge configuration – depth profile characterization, poster	The 5th International Colloquim of 'Physics of Materials', 11-12 Noiembrie 2016, Universitatea Politehnica Bucuresti	A.Groza, A.Surmeian, B.Mihalcea, P.Chapon M.Ganciu
312.	"Les lasers de très haute puissance et l'espace cosmique (invitata)	"Conférence internationale des responsables d'universités et institutions scientifiques d'expression françaiseLa recherche scientifique et ses interfaces disciplinaires 23-26 Mai, 2016, Marseillle, France,	M. Ganciu,

		https://sciences.univ-amu.fr/sites/sciences.univ-amu.fr/files/brochure_ciruisef_2016_ldpl.pdf	
313.	"High power laser for space applications"; prezentare orala	5th IAA Conference on space systems as Critical Infrastructure Space and Security, 9-10, August, 2016, Mamaia; Session 3 New Technologies	M. Ganciu
314.	PW class lasers for implementing Radiation Hardness Assurance (RHA) testing of Space mission on-board equipment, (invitata)	The 5th International Colloquim of 'Physics of Materials', 11-12 Noiembrie 2016, Universitatea Politehnica Bucuresti	B. Mihalcea, A. Groza, A. Surmeian, M. Serbanescu, C. Diplasu, B. Butoi, P. Dinca, L.Tudor, M. Ganciu
315.	Mihalcea B; "Emulation of the Jovian Radiation environment by using PW lasers"; 5th IAA Conference on space systems as Critical Infrastructure Space and Security, 9-10, August, 2016, Mamaia; Session 3 New Technologies, 15:45-17:30 (invitata)	5th IAA Conference on space systems as Critical Infrastructure Space and Security, 9-10, August, 2016, Mamaia; Session 3 New Technologies	B. Mihalcea
316.	Generation of polymeric layers in multipoint to plane corona discharge configuration – depth profile characterization, poster	The 5th International Colloquim of 'Physics of Materials', 11-12 Noiembrie 2016, Universitatea Politehnica Bucuresti	A.Groza, A.Surmeian, B.Mihalcea, P.Chapon M.Ganciu
317.	"Les lasers de très haute puissance et l'espace cosmique (invitata)	"Conférence internationale des responsables d'universités et institutions scientifiques d'expression françaiseLa recherche scientifique et ses interfaces disciplinaires 23-26 Mai, 2016, Marseillle, France, https://sciences.univ-amu.fr/sites/sciences.univ-amu.fr/files/brochure_ciruisef_2016_ldpl.pdf	M. Ganciu,
318.	Surface modification of Be and Be-coatings induced by intense transient thermal loads / O.35 – Oral talk	International Conference on Plasma Surface Interactions in Controlled Fusion Devices, Rome, Italy, May 30 – June 3, 2016	J. Linke, N.S. Klimov , D.V. Kovalenko , I.B. Kupriyanov, Th. Loewenhoff, C.P. Lungu , A.A. Markin , G. Pintsuk, R.A. Pitts , V.L. Podkovyro , V.M. Safronov , B. Spilker, P.N. Taratorkin , G. De Temmerman , M. Wirtz, N.E. Zabirova ,

			A.M. Zhitlukhin
319.	Beryllium layer response to ITER-like ELM plasma pulses in QSPA-Be / P1.57 - Poster	International Conference on Plasma Surface Interactions in Controlled Fusion Devices, Rome, Italy, May 30 – June 3, 2016	N.S. Klimov, V.L. Podkovyrov , I.B. Kupriyanov , J. Linke , R.A. Pitts , V.M. Safronov , D.V. Kovalenko , Th. Loewenhoff , C.P. Lungu , G. Pintsuk , G. De Temmerman , A.D. Muzichenko , A.A. Markin , P.N. Taratorkin , N.E. Zabirova , A.M. Zhitlukhin
320.	An Overview of Fuel Inventory and Deposition in Castellated Beryllium Structures in JET / I-01 – Invited lecture	International Conference on Plasma Surface Interactions in Controlled Fusion Devices, Rome, Italy, May 30 – June 3, 2016	M. Rubel , P. Petersson , Y. Zhou , J.P. Coad , K. Heinola , C. Lungu , S. Brezinsek , C. Porosnicu , A. Widdowson and JET Contributors*
321.	Multi wavelength Raman microscopy: a tool sensitive to both structure and chemistry in Be containing samples mimicking future JET/ITER samples /P2.63 - Poster	International Conference on Plasma Surface Interactions in Controlled Fusion Devices, Rome, Italy, May 30 – June 3, 2016	M. I. Rusu, C. Pardanaud , C. Martin , Y. Addab , P. Roubin , Y. Ferro , E. Cannuccia , L. Ferry, F. Virot , M. Barrachin, C P Lungu , C Porosnicu , P Dinca , M Lungu , M. Köppen , P. Dollase , T. Dittmar , Ch. Linsmeier
322.	Detection of fuel and trace elements in plasma-facing components using RF-discharge enhanced LIBS /P3.89 - Poster	International Conference on Plasma Surface Interactions in Controlled Fusion Devices, Rome, Italy, May 30 – June 3, 2016	M. Suchoňová , M. Pribula , V. Martišovitš , J. Krištof , C. Porosnicu , C. P. Lungu , A. Hakola P. Veis
323.	Determination of deuterium depth profiles in fusion-relevant wall materials by nanosecond LIBS/ P3.90 - Poster	International Conference on Plasma Surface Interactions in Controlled Fusion Devices, Rome, Italy, May 30 – June 3, 2016	M. Pribula , J. Karhunen , P. Paris , P. Veis , K. Piip , C. Porosnicu , C. Lungu , and A. Hakola
324.	Efficiency of thermal outgassing for tritium retention measurement and removal in ITER / O32 – Oral talk	International Conference on Plasma Surface Interactions in Controlled Fusion Devices, Rome, Italy, May 30 – June 3, 2016	G. De Temmerman, M.J. Baldwin , D. Anthoin, K. Heinola , A. Jan, I. Jepu , J.

			Likonen , C.P. Lungu , C. Porosnicu , R.A. Pitts
325.	Sectioning Techniques and Analysis of Selected Beryllium Tiles from JET-ILW / P2.68 - Poster	International Conference on Plasma Surface Interactions in Controlled Fusion Devices, Rome, Italy, May 30 – June 3, 2016	C. P. Lungu , C. Porosnicu , O. Pompilian , I. Jepu , M. Lungu , I. Tiseanu , C. Ayres , P. Coad , M. Rubel , A. Widdowson and JET Contributors
326.	Hydrogen trapping into and release from tungsten covered by beryllium/aluminum oxide layer under plasma irradiation / P2.4 - Poster	International Conference on Plasma Surface Interactions in Controlled Fusion Devices, Rome, Italy, May 30 – June 3, 2016	L. Begrambekov , A. Evsin , Ch. Grisolia , A. Kaplevsky , A. Evsin , I Jepu , J-M. Layet , C. Lungu , C. Porosnicu , A. Zakharov
327.	Thermal and chemical stability of the β-W2N nitride phase / P3.70 – Poster	International Conference on Plasma Surface Interactions in Controlled Fusion Devices, Rome, Italy, May 30 – June 3, 2016	R. Mateus, M.C. Sequeira , C. Porosnicu , C.P. Lungu , E. Alves
328.	Fuel Inventory and Deposition in Castellated Structures in JET-ILW /P6-1 – Poster	26th IAEA Fusion Energy Conference, Kyoto, Japan, 17 – 22 October 2016	M. Rubel, P. Petersson, Y. Zhou, J.P. Coad, C. Lungu, I. Jepu, C. Porosnicu, D. Matveev, A. Kirschner, Brezinsek, A. Widdowson
329.	Long-term fuel retention and release in JET ITER-Like Wall at ITER-relevant baking temperatures / P6-2 – Poster	26th IAEA Fusion Energy Conference, Kyoto, Japan, 17 – 22 October 2016	K. Heinola, J. Likonen, T. Ahlgren, S. Brezinsek, I. Jepu, G. F. Matthews, R. A. Pitts, G. De Temmerman, A. Widdowson, JET Contributors
330.	Tungsten carbonitride deposited by magnetron sputtering / S1 P70 – Poster	16th International Balkan Workshop on Applied Physics (IBWAP), Constanta, Romania, 7-9 July, 2016	A. O. Mateescu , G. Mateescu , I. Burducea , C. Ionescu , L. S. Craciun , C. P. Lungu , G.O. Pompilian
331.	HiPIMS And Reactive Magnetron Sputtering Techniques used for Obtaining Fusion Related Materials / S2 – L2 – Invited lecture	16th International Balkan Workshop on Applied Physics (IBWAP), Constanta, Romania, 7-9 July, 2016	C. Porosnicu, V. Tiron, P. Dinca, I. Jepu, O.G. Pompilian, I. Burducea, C. P. Lungu
332.	Nanocomposite Titanium Based Thin Films For Protectiv Coatings In	16th International Balkan Workshop on Applied Physics (IBWAP),	R. Vladoiu, A. Mandes, V. Dinca

	Industrial Applications / S2 – L6 – Invited lecture	Constanta, Romania, 7-9 July, 2016	Balan, G. Prodan, C. Porosnicu , C. P. Lungu
333.	High power laser irradiation of mixed Be/C/W films used in fusion technology / S2 – L7 – Invited lecture	16th International Balkan Workshop on Applied Physics (IBWAP), Constanta, Romania, 7-9 July, 2016	C. Lungu
334.	The study of erosion phenomena on fusion related marker samples by applying µXRF method / S2 – O1 – Oral talk	16th International Balkan Workshop on Applied Physics (IBWAP), Constanta, Romania, 7-9 July, 2016	M. Lungu, I. Tiseanu, C. Porosnicu, C. Dobrea
335.	Antimicrobial Efficiency Of Cu/Ag Layers Obtained By Tva Deposited On Filtering Grids Used For Smart Ventilation Systems / S2 – O6 – Oral talk	16th International Balkan Workshop on Applied Physics (IBWAP), Constanta, Romania, 7-9 July, 2016	B. Butoi, C. Porosnicu, P. Dinca, I. Jepu, C. Lungu, M. Lungu, O. G. Pompilian, A. Niculescu, S. Brajnicov , M. Diaconu, G. Soreanu , I. Cretescu
336.	Structural and morphological influence on deuterium retention for Be-W pure and mixed layers exposed to low frequency D plasma / S2 – O7 – Oral talk	16th International Balkan Workshop on Applied Physics (IBWAP), Constanta, Romania, 7-9 July, 2016	P. Dinca , O.G. Pompilian , C. Porosnicu , B. Butoi , I. Jepu , I. Burducea , C. P. Lungu
337.	Characterization of nitrogen doped silicon carbide multi-layer nanostructures obtained by TVA method / S5 – L7 – Invited lecture	16th International Balkan Workshop on Applied Physics (IBWAP), Constanta, Romania, 7-9 July, 2016	V. Ciupina, C. P. Lungu, R. Vladoiu, G.C. Prodan, C.Porosnicu , I. Jepu , A. Mandes , V. Dinca, E. Vasile , A. Caraiane, V. Nicolescu, A. Zaharia
338.	Synthesis and aharacterisation of some CuCoFe thin films with special magnetoresistance properties /S5 – P16 – Poster	16th International Balkan Workshop on Applied Physics (IBWAP), Constanta, Romania, 7-9 July, 2016	I. Prioteasa, R. Manu, C. Porosnicu, I. Mustata, C.P. Lungu, E. Vasile, G. Schinteie
339.	Preparation and Analysis of Beryllium Containing Fusion Related Materials Under Extreme Conditions - lectie invitata	5th International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems (IC4N), Porto Heli, Grecia, 26-30 iunie 2016	C. Porosnicu, C. P. Lungu, I. Jepu
340.	Models of chronic osteomyelitis in rabbit	FELASA Congress 2016, Belgia.	Coman C., Surdu-Bob C., Vlase E., Barbuceanu F., Turcu D., Popovici A., Badulescu M.,
341.	Preliminary Ag and Cu particle treatment of chronic osteomyelitis,	International Congress on Advances in Veterinary Sciences and Techniques, Sarajevo, Book of	Coman C., Surdu-Bob C., Vlase E., Barbuceanu F., Turcu

		Abstracts - ICAVAST 2016.	D., Badulescu M.,
342.	DLC films for improved non-resorbable surgical sutures,	European Materials Research Society "EMRS" 2016 Spring Meeting, Lille Grand Palais – France,	Anghel A., Badulescu M., Kuncser A., Bita B., Vlaicu M., Surdu-Bob C.,
343.	Nano-layer synthesis by Thermionic Vacuum Arc plasma for X-ray mirror applications	European Materials Research Society "EMRS" 2016 Spring Meeting, Lille Grand Palais – France	A. Anghel, M. Badulescu, A. Kuncser, B. Bita, M. Vlaicu, C. Surdu-Bob
344.	Film continuity studies of refractory metal nano-layers obtained using an improved set-up of the high voltage anodic plasma,	10th International Conference on Photoexcited Processes and Applications "ICPEPA-10", Brasov, Romania, poster P73	Badulescu M., Anghel A., Vlaicu M., Surdu-Bob C., Gavrila R., Bita B.,
345.	Inter-diffusion studies in stacks of nano-layers of alternating W and B	10th International Conference on Photoexcited Processes and Applications "ICPEPA-10", Brasov, Romania, poster P 122	Surdu-Bob C., Vlaicu M., Anghel A., Badulescu M., Gavrila R., Bita B.,
346.	Performance of plasma-synthesized W-Si multilayer structures for X-ray optics applications,	The 5th International Colloquium "Physics Of Materials" (PM 5)- . Politehnica, Bucuresti. Poster P.2.5	Surdu-Bob C., Vlaicu M., Anghel A., Badulescu M.,
347.	Thermionic Vacuum Arc plasma deposition and X-ray reflectivity characterization of multilayer structures for X-ray mirrors	The 6-th National Conferenceof Applied Physics - CNFA2016	Vlaicu M., Anghel A., Badulescu M., Surdu-Bob C.,
348.	Compact TVA plasma - new opportunity for thin film deposition for energy applications	International Symposium on Energy Challanges and Mechanics - ISECM 2016, Inverness, UK	Surdu-Bob C., Badulescu M., Anghel A., Sporea D
349.	Simulation of surface currents excited by plasma wall-touching kink and vertical modes in tokamak	International Symposium on Fundamentals of Electrical Engineering (ISFEE), Bucharest, Romania, JUN 30-JUL 02, 2016	Atanasiu, Calin V.; Zakharov, Leonid E.; Lackner, Karl; et al.
350.	Kinetic resonances effect on magnetic braking in tokamaks	42nd European Physical Society Conference on Plasma Physics, Lisbon, Portugal, 22-26 June 2015	I.G. Miron
351.	Modelling of seed magnetic island formation	43rd EPS Conference on Plasma Physics, Leuven, Belgium, 4-8 July 2016	I.G. Miron
352.	Effect of the EC torque on slow plasma rotation under central ECH/ECCD for NTM onset	26th IAEA Fusion Energy Conference, Kyoto, Japan, 17–22 October 2016.	S. Nowak, E. Lazzaro, O. Sauter, .., I. G. Miron et al
353.	Overview of progress in European Medium Sized Tokamaks towards an integrated plasma-edge/wall solution	26th IAEA Fusion Energy Conference, Kyoto, Japan, 17–22 October 2016.	H. Meyer, T. Eich, M. Beurskens, .., I. G. Miron et al
354.	Overview of the TCV Tokamak Program: Scientific Progress and Facility Upgrades	26th IAEA Fusion Energy Conference, Kyoto, Japan, 17–22 October 2016.	S. Coda, J. Ahn, R. Albanese, .., I. G. Miron et al
355.	„A MHD invariant with effects on	The Joint Meeting of Quantum	F. Spineanu, M. Vlad

	the confinement regimes in Tokamak”	Fields and Nonlinear Phenomena, Workshop on "Nonlinear Dynamics and Applications in Plasma Physics, 09-13 March 2016 Sinaia, Romania	
356.	„The deep theoretical background of extreme atmospheric events”	The Joint Meeting of Quantum Fields and Nonlinear Phenomena, Workshop on "Nonlinear Dynamics and Applications in Plasma Physics, 09-13 March 2016 Sinaia, Romania	F. Spineanu, M. Vlad
357.	„Turbulence and zonal-flow generation: a semi-analytical study based on the iterated self-consistent method”	The Joint Meeting of Quantum Fields and Nonlinear Phenomena, Workshop on "Nonlinear Dynamics and Applications in Plasma Physics, 09-13 March 2016 Sinaia, Romania	M. Vlad, F. Spineanu
358.	„Conformal invariance and vorticity concentration in fluid flows”	The Joint Meeting of Quantum Fields and Nonlinear Phenomena, Workshop on "Nonlinear Dynamics and Applications in Plasma Physics, 09-13 March 2016 Sinaia, Romania	V. Baran, F. Spineanu, M. Vlad,
359.	„Nonlinear effect in collisional particle transport in a space-variable stochastic magnetic field”	The Joint Meeting of Quantum Fields and Nonlinear Phenomena, Workshop on "Nonlinear Dynamics and Applications in Plasma Physics, 09-13 March 2016 Sinaia, Romania	A. Croitoru, M. Vlad, F. Spineanu,
360.	„Turbulent transport of alpha particles in drift type tyrbulence in tokamak plasmas”	The Joint Meeting of Quantum Fields and Nonlinear Phenomena, Workshop on "Nonlinear Dynamics and Applications in Plasma Physics, 09-13 March 2016 Sinaia, Romania	D. I. Palade, A. Croitoru, M. Vlad, F. Spineanu
361.	„Stationary asymptotic states in 2D MHD as Painleve transcendents”	The Joint Meeting of Quantum Fields and Nonlinear Phenomena, Workshop on "Nonlinear Dynamics and Applications in Plasma Physics, 09-13 March 2016 Sinaia, Romania	A. Zubarev, F. Spineanu, M. Vlad,
362.	Effect of non-thermal plasma on the germination and early growth of seeds	Workshop on Application of Advanced Plasma Technologies in Central Europe Agriculture, Ljubljana, Slovenia, 17-21.04.2016	M. Magureanu, D. Dobrin, N.B. Mandache, M. Gîdea
363.	Hydrogen peroxide generation in corona discharge above liquid in the presence of organic compounds	International Symposium on High Pressure Low Temperature Plasma Chemistry, Brno, Czech Republic, 11-16.09.2016	D. Dobrin, M. Magureanu, C. Bradu, N. B. Mandache and V. I. Parvulescu
364.	The composition–property relationship of oxide thin films using Rutherford Backscattering Spectrometry	Carpathian Summer School of Physics 2016, Exotic Nuclei and Nuclear/Particle Astrophysics (VI). Physics with small accelerators, 26.06-09.07 2016, Sinaia, Romania	M. Nistor
365.	Oxide thin films grown by pulsed electron beam deposition,	Seminar la Department of Photonics Engineering, Technical	M.Nistor

		University of Denmark, Roskilde, Danemarca, 20-12-2016	
366.	From transparent conducting to photon down-shifting Nd doped ZnO thin films	European Materials research Society (E-MRS) Spring Meeting 2016, 2-6 May 2016, Lille, France	M. Nistor, F.Gherendi, L.Mihut, E. Millon, C. Cachoncinlle, C. Hebert, J. Perrière,
367.	Random lasing in wide-gap semiconductor thin films under deep UV pulsed laser pumping	European Materials research Society (E-MRS) Spring Meeting 2016, 2-6 May 2016, Lille, France	C. Cachoncinlle, E. Millon, A. Petit, M. Nistor
368.	From transparent conducting oxide to photon down-shifting doped zinc oxide thin films	16th International Balkan Workshop on Applied Physics and Materials Science, , Constanta, Romania, 7-9 July, 2016	M. Nistor, L.Mihut, E. Millon, C. Cachoncinlle, J. Perrière
369.	Comparison of pulsed electron beam deposition and pulsed laser deposition methods	ICPEPA - 10th International Conference on Photo-Excited Processes and Applications, Brasov, Romania, 29.08 – 02.09 2016	M. Nistor
370.	Oxide thin film transistors made by pulsed electron beam deposition	ICPEPA - 10th International Conference on Photo-Excited Processes and Applications, Brasov, Romania, 29.08 – 02.09 2016	F. Gherendi, N.B. Mandache, M. Nistor
371.	Zn1-xFexO thin films grown by pulsed laser deposition: from transparent Fe-diluted ZnO wurtzite to magnetic Zn-diluted Fe3O4 spinel	ICPEPA - 10th International Conference on Photo-Excited Processes and Applications, Brasov, Romania, 29.08 – 02.09 2016	M. Nistor, J. Perrière, C. Hebert, E. Millon, J.J. Ganem, N. Jedrecy
372.	Ablation with electrons versus photons for thin film growth	Simpozionul Y "Pulsed-laser deposition of thin films : 30 years of fundamentals, innovative materials and applications", European Materials Research Society Fall Meeting 2016, 18.09–22.09.2016, Varsovia, Polonia	M. Nistor
373.	Growth and properties of Nd/Nb-codoped TiOx (with x equal 1.5 or 2) thin films obtained by pulsed-laser deposition	Simpozionul Y "Pulsed-laser deposition of thin films : 30 years of fundamentals, innovative materials and applications", European Materials Research Society Fall Meeting 2016, 18.09–22.09.2016, Varsovia, Polonia	C. Tchiffo-Tameko, C. Cachoncinlle, J. Perriere, M. Nistor, E. Millon
374.	Imaging of the random lasing area in ZnO thin films grown by pulsed laser deposition	Simpozionul Y "Pulsed-laser deposition of thin films : 30 years of fundamentals, innovative materials and applications", European Materials Research Society Fall Meeting 2016, 18.09–22.09.2016, Varsovia, Polonia	C. Cachoncinlle, E. Millon, M. Nistor
375.	Epitaxial indium oxide thin films	Simpozionul M Transparent	M.Nistor, W.Seiler,

	grown by pulsed electron beam deposition	conducting and semiconducting oxides and their applications), ", European Materials Research Society Fall Meeting 2016, 18.09–22.09.2016, Varsovia, Polonia	C.Hebert, J.Perrière
376.	Optical and electrical properties of rare earth doped ZnO thin films for solar cell devices	6th International Symposium on Transparent Conductive Materials (TCM 2016), 08 –14.10.2016, Greece	M. Nistor, F. Gherendi, E. Millon, J. Perrière
377.	ZnO thin films grown with spatially tuned electrical and optical properties at room temperature	6th International Symposium on Transparent Conductive Materials (TCM 2016), 08 –14.10.2016, Greece	F.Gherendi, N.B.Mandache, L.Ion, M. Nistor
378.	Experimental study of an atmospheric pressure plasma ignited periodically by high voltage pulses	16 th IBWAP, July 7-9, 2016, Constanta, Romania	O. S. Stoican
379.	Last Developments in Tomographic Reconstructions for the Exact Sciences	4th International Conference Frontiers in Diagnostic Technologies, Laboratori Nazionali di Frascati, 2016.	T. Craciunescu , A. Murari , V. Kiptily , J. Vega
380.	Applications of Three-Ion ICRF Scenarios for Full-Field ITER Operation	Theory of fusion plasmas - Joint Varenna-Lausanne International Workshop, Varenna, Italy, 29 Aug-02 Sept. 2016	Y. Kazakov, J. Ongena, D. Van Eester, R. Bilato, T. Craciunescu, R. Dumont, V. Kiptily, E. Lerche, M. Mantsinen, A. Messiaen, M. Nocente, S. Sharapov, J. Wright, S. Wukitch
381.	Plasma heating and generation of energetic ions with novel three-ion ICRF scenarios on Alcator C-Mod and JET tokamak facilities	58th Annual Meeting of the APS Division of Plasma Physics, San Jose, California, USA, 31 Oct. - 04 Nov. 2016.	Y. Kazakov, J. Ongena, E. Lerche, D. Van Eester, M. Nocente, V. Kiptily, T. Craciunescu, S. Sharapov, Y. Baranov, J. Bielecki, R. Bilato, V. Bobkov, A. Cardinali, C. Castaldo, K. Crombé, A. Czarnecka, R. Dumont, P. Dumortier, F. Durodie, J. Eriksson, J. Faustin, M. Fitzgerald, D. Gallart, L. Giacomelli, J. Graves, Ph. Jacquet,

			N. Krawczyk, M. Lennholm, T. Loarer, M. Mantsinen, A. Messiaen, I. Monakhov, F. Nave, T. Johnson, D. Valcarcel, H. Weisen, S. Wukitch, J. Wright, E. Edlund, Y. Lin, M. Porkolab, E.F. Jaeger, M. Schneider,
382.	Upgrade of the tangential gamma-ray spectrometer beam-line for JET DT experiments	29th Symposium on Fusion Technology (SOFT 2016), Prague, Czech Republic, 05-09 Sept. 2016.	M. Curuia , T. Craciunescu , S. Soare , V.L. Zoita , V. Braic , D. Croft , A. Fernandes , J. Figueiredo, V. Goloborod'ko , G. Gorini , S. Griph , V. Kiptily , I. Lengar , S. Mianowski , J. Naish , R. Naish , M. Nocente , R. C. Pereira , V Riccardo , K. Schoepf , B. Santos, M. Tardocch, V. Yavorskij , I. Zychor
383.	CeBr3 –based detector for Gamma Spectrometer Upgrade at JET	29th Symposium on Fusion Technology (SOFT 2016), Prague, Czech Republic, 05-09 Sept. 2016.	R. Kwiatkowski , G. Bołtruczyk , A. Brosławski , M. Gosk , S. Korolczuk , S. Mianowski , A. Szydłowski , I. Zychor , V. Braic , R. Costa Pereira , T. Craciunescu , D. Croft , M. Curuia , A. Fernandes , V. Goloborod'ko , G. Gorini , V. Kiptily , I. Lengar , J. Naish , R. Naish , M. Nocente , K. Schoepf , B. Santos, S. Soare , M. Tardocchi , V. Yavorskij , V.L. Zoita
384.	Conceptual design of a gamma-ray monitor for lost alpha particles in JET	29th Symposium on Fusion Technology (SOFT 2016), Prague, Czech Republic, 05-09 Sept. 2016.	S. Soare, V.L. Zoita, V. Braic, T. Craciunescu, D. Falie, V. Golonorod'ko, V.

			Kiptily, I. Lengar, R.C. Pereira , V. Yavorskij, I. Zychor, N. Balshaw, D. Croft , A. Cufar , M. Curuia, A. Fernandes , J. Figueiredo, Y. Krivchenkov , N. Lam, C. Marren , S. Mianowski, V. Riccardo, K. Schoepf , Z. Stancar, L. Swiderski, V. Thompson
385.	Micro X-ray fluorescence method applied on plasma fusion exposed or relevant samples	XLVth national conference of physics and modern educational technology (FTEM 2016)	M. Lungu, I. Tiseanu, C. Porosnicu, C. Dobrea,M
386.	The study of erosion phenomena on fusion related marker samples by applying µXRF method	The 16th International Balkan Workshop on Applied Physics (IBWAP2016)	M. Lungu, I. Tiseanu, C. Porosnicu, C. Dobrea
387.	The emissivity of W coatings deposited on carbon materials for fusion applications	29th Symposium on Fusion Technology (SOFT 2016), Sept. 2016, Praga, Cehia	C. Ruset, D. Falie, E. Grigore, M. Gherendi, V. Zoita, K-D. Zastrow, G. Matthews, X. Courtois, J. Bucalossi, J. Likonen
388.	'Particle Acceleration Produced by Laser Beams'	The 9th Annual International Conference on Sustainable Development through Nuclear Research and Education, 18 – 20 mai 2016, Pitesti, Romania	F. Scarlat, A. Scarisoreanu, E. Badita, E. Stancu, M. Demeter, C. Vancea, I. Calina,
389.	Synthesis of superabsorbent xanthan/reduced graphene oxide hydrogels using electron beam irradiation,	Fourth International Conference on Radiation and applications in various fields of Research, 21 – 27 mai 2016, Nis, Serbia.	C. Vancea, M. Demeter, I. Calina, A. Scarisoreanu, E. Stancu, E. Badita
390.	Dermatocosmetics Facial Masks for Topical Treatment of Acne,	6th International Conference on Advanced Materials and Systems, 20-22 octombrie 2016, Bucuresti, Romania, P6.6	E. Danila, Z. Moldovan, M. V. Ghica, M.G. Albu Kaya, V. Anuta, M. Demeter, C. Chirita
391.	Dermatocosmetics Facial Masks for Topical Treatment of Acne,	Proceedings of THE 6th INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS AND SYSTEMS, 20-22 octombrie 2016, Bucuresti, p.39.	E. Danila, Z. Moldovan, M. V. Ghica, M.G. Albu Kaya, V. Anuta, M. Demeter, C. Chirita
392.	Quality assurance in the linear accelerator clinical dosimetry of Coltea Hospital	Conferinta stiintifica Anuala a Facultatii de Fizica, Bucuresti, Romania, 17 iunie 2016;	Ion Calina, Eugenia Badita, Catalin Vancea, Daniela

			Stroe, Mihaela Dumitrache, Elena Stancu, Florea Scarlat, Mirabela Dumitrache
393.	Dosimetry and Radioprotection Elements. The Assurance of the Calibration Traceability of Dosimetric Equipment Used in Radiotherapy	Conferinta stiintifica Anuala a Facultatii de Fizica, Bucuresti, Romania, 17 iunie 2016	Mirabela Dumitrache, Mihaela Dumitrache, Daniela Stroe, Claudia Gabriela Chilom, Ion Calina, Elena Stancu, Eugenia Badita, Cătălin Vancea
394.	Influence of Crosslinking Method on the Properties of Natural Rubber Mixtures,	Proceedings of the 6th International Conference on Advanced Materials and Systems, ICAMS 2016, 20-22 october 2016, Bucharest, Romania. ISSN: 2068-0783; 165-170, P1.7	Stelescu MD., Manaila E., Craciun G., Sonmez M., Nituica M., Georgescu M.,
395.	Comparison of Characteristics of Natural Rubber Compounds with Various Fillers,	Proceedings of the 6th International Conference on Advanced Materials and Systems, ICAMS 2016, 20-22 october 2016, Bucharest, Romania. ISSN: 2068-0783; 159-164, P1.8	Stelescu MD., Manaila E., Nituica M., Alexandrescu L., Gurau D.,
396.	Radiation Synthesis and Characterization of Poly(Acrylamide-CO-Acrylic Acid) Hydrogels used for the Absorption of Heavy Metals,	Proceedings of the 6th International Conference on Advanced Materials and Systems, ICAMS 2016, 20-22 october 2016, Bucharest, Romania. ISSN: 2068-0783; 111-116, P1.13	Manaila E., Craciun G., Ighigeanu D., Stelescu MD.,
397.	Heavy Metals Removal from Contaminated Water Using Poly(Acrylamide-co- Acrylic Acid)-Sodium Alginate Flocculant Obtained by Electron Beam Irradiation,	Proceedings of the 6th International Conference on Advanced Materials and Systems, ICAMS 2016, 20-22 october 2016, Bucharest, Romania. ISSN: 2068-0783; 363-369, P2.6	Manaila E., Craciun G., Ighigeanu D., Stelescu MD.,
398.	Evaluation of mid-IR Components for Spaceborne Instrumentation	IEEE International Workshop on Metrology for Aerospace (MetroAeroSpace), 22-23 Jun 2016, Florence/ PS8	Dan Sporea, Laura Mihai, Adelina Sporea, Daniel Ighigeanu,Daniel Negut
399.	Extraction of Essential Oil from Ginger Using Microwave Hydro-diffusion and Gravity Method – Energy Considerations	6th International IUPAC Conference On Green Chemistry 4-8 Sept. 2016 Venetia/ P503	D. Ighigeanu, I. Calinescu, I. Asofiei, A.I. Gavrila, D. Martin, C. Matei
400.	Microwave Assisted Extraction Using an Open-end Coaxial Antenna and a Cooling System	6th International IUPAC Conference On Green Chemistry 4-8 Sept. 2016 Venetia/ IP410	I. Calinescu, V.Lavric, I. Asofiei, A.I. Gavrila, D. Ighigeanu, D. Martin, C. Matei

401.	The CETAL-PW Laser Facility as an Irradiation Faciity	COST TD1025 WG3/Bucharest 29 Feb 2016	C.M. Ticos
402.	High Speed Imaging of Plasmas	Histeresis/Princeton Instruments Seminar, feb 2 Magurele, 2016	C.M. Ticos, A. Scurtu, G. Giubega, D. Ticos,
403.	Electron Acceleration for Space Applications at the CETAL-PW Facility	Workshop on Complex Systems of Charged Particles and their Interaction with Electromagnetic Radiation,Rusia, 2016	O. Budriga, C.M. Ticos,
404.	Pushing dust particles with plasma jets: application to surface cleaning	European Physics Society, EPS 2016, 4-8 iul., Leuwen, Belgium	A. Scurtu, C.M. Ticos, D. Ticos
405.	Characterization of some natural polymers irradiated with electron beam: thermal, spectral and morphological analyses	The 25th Symposium on Thermal Analysis and Calorimetry – Eugen Segal, p 54, 15th of April 2016, Bucharest, Romania	M. Brașoveanu, M. Nemțanu, E. Pincu, V. Meltzer
406.	Characterization of water-soluble starch-based capolymers synthesized by electron beam irradiation	The 25th Symposium on Thermal Analysis and Calorimetry – Eugen Segal, p 54, 15th of April 2016, Bucharest, Romania	M. Nemțanu, M. Brașoveanu, E. Pincu, V. Meltzer
407.	Application of electron beam irradiation to modify the rheological behavior of pectins	The 12th International Conference on Electron Beam Technology (EBT2016), 13 – 18 June 2016, Varna, Bulgaria	M.R. Nemțanu, M. Brașoveanu
408.	Graphical user interface for optimization of starch modified by electron beam irradiation	The 12th International Conference on Electron Beam Technology (EBT2016), 13 – 18 June 2016, Varna, Bulgaria	E. Koleva, L. Koleva, M. Brașoveanu, M.R. Nemţanu, T. Paneva, V. Tzotchev
409.	Electron-beam graft modification of biopolymers for use in the surface water treatment	The 12th International Conference on Electron Beam Technology (EBT2016), 13 – 18 June 2016, Varna, Bulgaria	M. Braşoveanu, M.R. Nemţanu, L. Flore, V. Anca
410.	Investigation and Optimization of Electron Beam Grafting of Corn Starch	International Scientific Conference "High Technologies. Business. Society 2016", 14 – 17 March 2016, Borovets, Bulgaria	Koleva E., Koleva L., Nemțanu M.R., Brașoveanu M., Vutova K., Tzotchev V.
Comunicari stiintifice prezentate la conferinte internationale :			**410**

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

Nr.Crt	Descriere	Studii prospective/ tehnologice, normative, proceduri, metodologii și planuri tehnice noi sau perfecționate	Beneficiar
1.	Teste experimentale privind sudarea cu laser a materialelor neferoase de tipul Cupru si Aluminiu.	Studiu de fezabilitate (test)	Universitatea Transilvania din Brasov, Dep. Ing. Materialelor si Sudarii. Contract nr. 3/ 2016
2.	Teste debitare aluminiu	Teste debitare	Sensy Touch Contract cadru nr.2/10.03.2016
3.	Tehnologie pentru sudura unor elemente de stocarea a elergiei	Tehnologie	Prime Motors SRL, Contract Transfer Tehnologic nr.6/2016,

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

Crt.	Titlu	Publicația oficială	Inventatorii/Titularii
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