

CURRICULUM VITAE

Maria DINESCU

Institutul National de Cercetare si Dezvoltare pentru Fizica Laserilor, Plasmei si a Radiatiilor

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1. **Data nasterii:** 10 septembrie 1954

2. **Cetatenie:** romana

3. **Educatie si formare:**

- Decembrie 2006: **Stagiu**, ETH Zurich, PSI Villigen, Elveția (Universitatea ETH este între primele 10 universități din lume)
 - Printare laser de materiale organice/biologice
- Mai 2005: **Stagiu**, Laboratorul de Cercetări Navale, Washington DC, SUA4
 - Evaporare Laser Pulsată Asistată de Matrice (MAPLE) – Scriere directă a celulelor vii
- 1985 – 1992: **Doctorat în fizică** (Summa cum laudae), Institutul de Fizica Atomica
 - Procesare fotonica și caracterizarea filmelor subțiri de oxizi funcționali
 - Optica, Spectroscopie, Plasma, Laseri.
- Septembrie 1973 – August 1978: **Licentiat în Fizica**, Fizica plasmei: "Tun electronic cu plasmă", **Master:** Specializarea « Optică, Spectroscopie, Plasmă, Laseri », Universitatea din București, Facultatea de Fizica
 - Recomandat pentru activitatea de cercetare științifică

4. **Experiența profesională:**

- Iunie 1999 – prezent: Cercetător științific gradul 1, INFLPR, Magurele
 - Lider de grup de cercetare, Procesare laser și caracterizarea filmelor subțiri (materiale funcționale, polimeri, biomateriale)
Tipul sau sectorul de activitate: Institut National de Cercetare
- 2006 – prezent: Profesor de Școală Doctorală, Universitatea din Craiova, Craiova, România
 - Coordonator de teze de doctorat
Tipul sau sectorul de activitate: educație
- Mai – Iulie 1999, Aprilie – Iulie 2001, Iunie 2006: Profesor, Invitat Școala de Mine, Institutul Politehnic din Lorena, Nancy, Franța
 - Laseri și aplicații, ablație laser reactivă pentru depunerea de filme subțiri cu proprietăți termoelectrice
Tipul sau sectorul de activitate: educație
- Ianuarie – Aprilie 1998, Februarie – Mai 1999, Octombrie 2002 – Ianuarie 2003: Profesor Invitat, Universitatea Johannes Kepler, Institutul de Fizică Aplicată, Linz, Austria
 - Filme subțiri prin ablație laser; procesare laser
Tipul sau sectorul de activitate: science
- Septembrie – Decembrie 1999: Cercetător experimentat, Universitatea din Orleans, GREMI, Orleans, Franța
 - Filme subțiri prin tehnici laser
Business sau sector: science
- Mai 1992 – Mai 1999: Cercetător științific gradul 2, IFTAR - INFLPR, Măgurele

- Procesare laser si caracterizarea filmelor subțiri
Tipul sau sectorul de activitate: Institut Național de Cercetare
- Octombrie 1978 – Mai 1992: Fizician, IFTAR (viitorul INFLPR), Str. Atomistilor nr. 409, Măgurele, România
 - Interacția laserului cu materia Tipul sau sectorul de activitate: educatie
Tipul sau sectorul de activitate: Institut Național de Cercetare

5. **Limbi straine:** Engleza, Franceza, Italiana

6. **Competențe de comunicare:** bune competențe de comunicare dobândite prin experiența de : Profesor la scoala Doctorala, Profesor invitat/ Cercetator, participarea la nenumarate Conferinte Stiintifice, etc.

7. **Competențe organizaționale/manageriale:** din 1998 – **Liderul grupului “Procesare fonică de materiale avansate”** (28 de membri) la INFLPR, Departamentul Laseri

8. **Permis de conducere:** B

9. **Alte competențe:**

Co-Editor a opt cărți:

1. Applied Surface Science, 535, 147725.ICASS Conference Pisa, (Italy) (2021)
2. Applied Surface Science Vol 438, BRAMAT 2017, 10 th International Conference on Material Science and Engineering, Brasov, (2018)
3. **1.E-MRS 2012 Symposium V**, Vol 278, Laser materials processing for micro and nano-applications, Eds. Maria Dinescu, (2013)
4. **E-MRS Symposim Proceedings** vol 197, “Photon Assisted Synthesis and Processing of Functional Materials”, Eds. Maria Dinescu, Hiroshi Fukumura, Henry Helvajian, Eric Millon, Tamas Szorenyi, Elsevier B.V. (2007)
5. PROCEEDING SPIE Vol. 6606, Eds. D.C. Dumitras, Maria Dinescu, V.I Konov, (2007)
6. 4.MRS Symposium Proceedings Vol. 780, Advanced Optical Processing of Materials, Eds. D.B. Chrisey, Maria Dinescu, I.W. Boyd, A.V. Rode, (2003)
7. 5.PROCEEDING SPIE, Vol. 4762, Eds. D.C. Dumitras, Maria Dinescu, V.I Konov, (2002)
8. **6.NATO-ASI**, 3-Vol. 76, “Piezoelectric materials: Advances in Science Technology and Applications”, Eds. Carmen Galassi, M. Dinescu, K. Uchino, M. Sayer, Kluwer Academic Publisher, (2000)

Co-Director:

1. a 5-a ediție a Școlii Internaționale “Interacțiuni laser-suprafață pentru producerea de noi materiale” S. Servolo (Veneția, Italia) Iulie 10-17, 2016
2. a 2-a ediție a Școlii Internaționale “Interacțiuni laser-suprafață pentru producerea de noi materiale” S. Servolo (Veneția, Italia) Iulie 11-18, 2010
3. NATO-ASI “Materiale piezoelectrice: progresele în domeniul științei și tehnologiei aplicațiilor”, Predeal, Romania, mai 1999

Co-Chair la Conferințe Internaționale:

1. International Conference on Laser Ablation (COLA) 2019, September 2019, Maui, USA
2. International Conference on Applied Surface Science (ICASS 3), June 2019, Pisa, ItalyE-MRS Symposium X "Photon-Assisted Synthesis and Processing of Materials in Nano-Microscale", June 2018, Strasbourg,, France
3. E-MRS Symposium V, Stress, structure, and stoichiometry effects on the properties of nanomaterials III , Septembrie 2015 , Varșovia, Polonia.
4. E-MRS Symposium V , Laser materials processing for micro and nano-applications, Mai 2012, Strasbourg, Franța
5. E-MRS Symposium “Photon-Assisted Synthesis and Processing of Materials in Nano-Microscale”, Iunie 2006, Nisa, Franța

6. Advanced Laser Technologies (ALT'06), Braşov 2006, România
7. MRS Symposium "Advanced Optical Processing of Materials", Aprilie 2003, San Francisco, SUA
8. Advanced Laser Technologies (ALT'01), Septembrie 2001, Constanţa, România,

Editor Applied Surface Science din 2014 (IF 2021 : 6, 707)

Coordonare științifică a:

- 10 teze de doctorat
- 25 de teze de Master
- 40 de lucrări de licență

Membru în comisii de doctorat la: ETH Zurich, Universitatea din Lille, Școale de Mine Nancy, Universitatea din Marsilia

Evaluator de Proiecte: Comisia Europeana, DOE-SUA, CNRS-Franța, CNR-Italia, Fundația Cehă pentru Știință

10. Informații suplimentare:

Publicații: Rezultatele activității s-au concretizat în peste 300 de lucrări publicate în jurnale cotate ISI, **Index Hirsch: 30**, conform Web of Science

Prezentări: peste 250 de lucrări prezentate la conferințe internaționale

Proiecte internaționale și naționale: Vezi Anexe.

Afilieri: Membru al asociațiilor profesionale: Societatea Europeană de Fizică (EPS), Societatea Internațională pentru Inginerie Optică (SPIE), Societatea Europeană pentru Optică (EOS), Societatea pentru Cercetare a Materialelor (MRS)

Citări: mai mult de 3300 de citări (fără autocitări) conform Web of Science

Proiecte internaționale:

1. H-2020, 862016/2019 "**BioCombs4Nanofibers**", (2019-2022)
2. H 2020-754586/2017 (TRANSAT): „**TRANSversal Actions for Tritium**”, (2017-2022)
3. Romanian-Swiss Research Programme (RSRP); „ Materiale perovskitice nanostructurate cu banda interzisă mică pentru aplicații fotovoltaice și generare de hidrogen prin fotocataliză” (2013-2015)
4. Romanian Coordinator of FP 7, FP7-ICT-2009-4-247868, e-LIFT “Scriere cu laser de materiale inorganice/organice pentru fabricarea de dispozitive electronice” proiect (2010-2012)
5. NATO-SfP Project Co-Director 982671 proiect, Polimeri pe bază de matrice senzor piezoelectric pentru detectarea chimică a agenților de război, (2007-2011)
6. Romanian Coordinator of FP 6, NMP3-CT-2006-033297, 3D-DEMO, Depunere de filme subțiri de nanostructuri complexe tridimensionale de oxizi multifuncționali, proiect (2006-2010)
7. Romanian Coordinator of FP 5 IST –2001-33326 “Matrice de senzori piezoelectrice pentru interacțiuni biomoleculare și de monitorizare a gazelor” (PISARRO) proiect (2002-2004)
8. NATO Linkage grant "Crestere de filme subțiri feroelectrice prin fs PLD" (2003-2005)
9. NATO SfP Co-Director of the Project 97-1934, “Tehnologii curate bazate pe laser pentru aplicații în senzorialitate”, (1999-2002)

Proiecte nationale:

1. PCCF7/2018 „Dispozitive nanoelectronice avansate bazate pe heterostructuri grafenă/feroelectric”, acronim GRAPHENEFERRO, 2018-2022 (partener)
2. PCCA 6 / 2012 “Structuri tridimensionale stimulate electric pentru ingineria tesuturilor” (ELITISS), Responsabil Proiect, 2012-2016
3. PCCA 245/ 2014 “Spectrometru compact de infrarosu(COSPIR)”, Responsabil partener INFLPR, 2014-2016
4. PCCA 213/2014, Implanturi ortopedice obținute din aliaje multifuncționale tip "Gum", Responsabil partener INFLPR, 2014-2016
5. PN 09 39 01 02, “Metode si tehnologii laser de sintetizare si procesare de noi nanomateriale multifuncționale”, Responsabil Proiect, 2009-2011
6. PNCDI 2 71-111 “Procesare fotonica de biopolimeri (FOTOPOL)”, Responsabil proiect, 2007 – 2010
7. 12-086 “Componente feromagnetice pentru sisteme microelectromecanice (OMICRON)“, Responsabil partener INFLPR, 2008 – 2011
8. 70 CP I, “Procesarea laser a materialelor functionale (PROLIFT)”, Responsabil partener INFLPR, 2008 – 2011
9. 72-162 “Materiale noi cu banda interzisa variabila pe baza de InN pentru Aplicatii in optoelectronica (MInNA)”, Responsabil partener INFLPR, 2008 – 2011
10. 71-040 “Materiale perovskitice multifuncționale cu aplicatii in domeniul electronicii si optoelectronicii (MATPEROL)”, Responsabil partener INFLPR, 2007 – 2010
11. 11-061 “Procesarea laser a filmelor subtiri oxidice nanostructurate pentru electronica transparenta si conventionala (PROLAF)”, Responsabil partener INFLPR, 2007 – 2010
12. 72-149 “Materiale pentru heterostructuri complet oxidice cu aplicatii in nano si optoelectronica (HETOX)”, Responsabil partener INFLPR, 2007 – 2010
13. 71-103 “Studiul modificarilor induse in zirconia,spinel si SiC prin implantare ionica si tratamente termice utilizand metode IBA si alte tehnici avansate (CERNUCL)”, Responsabil partener INFLPR, 2007 – 2010

Publicatii (selectie): 2014-2022

1. C. Craciun, F. Andrei, A. (Bonciu, S. Brajnicov, T. Tozar, M. Filipescu, A. Palla-Papavlu, M. Dinescu, NANOMATERIALS, DOI10.3390/nano12071138, (2022)
2. A. Moldovan, M. Dinescu, Single-pass magnetic force microscopy technique, with topography feedback based on scanning polarization force microscopy, Applied Surface Science, 597, DOI10.1016/j.apsusc.2022.153747, (2022)
3. Palade, C; Lepadatu, AM; Slav, A; Cojocaru, O; Iuga, A; Maraloiu, VA; Moldovan, A; Dinescu, M; Teodorescu, VS; Stoica, T; Ciurea, ML; "A nanoscale continuous transition from the monoclinic to ferroelectric orthorhombic phase inside HfO2 nanocrystals stabilized by HfO2 capping and self-controlled Ge doping"; JOURNAL OF MATERIALS CHEMISTRY C 9 (36) 12353-12366 (2021).
4. Favre, A; Morel, V; Bultel, A; Godard, G; Idlahcen, S; Benyagoub, A; Monnet, I; Semerok, A; Dinescu, M; Markelj, S; Magaud, P; Grisolia, C; "Double pulse laser-induced plasmas on W and Al by ps-LIBS: Focus on the plasma-second pulse interaction"; FUSION ENGINEERING AND DESIGN 168, 112364 (2021).
5. Irina A. Paun, Bogdan S. Calin, Cosmin C. Mustaciosu, Eugenia Tanasa, Antoniu Moldovan, Agata Niemczyk and Maria Dinescu, "Laser Direct Writing via Two-Photon Polymerization of 3D Hierarchical Structures with Cells-Antiadhensive Properties", Int. J. Mol. Sci., 22, 5653. <https://doi.org/10.3390/ijms22115653>, (2021)

6. Palla-Papavlu, Alexandra; Voicu, Stefan Ioan; Dinescu, Maria, "Sensitive Materials and Coating Technologies for Surface Acoustic Wave Sensors", *Chemosensors*, 9, 105. <https://doi.org/10.3390/chemosensors9050105>, (2021)
7. Stokker-Cheregi, F; Bercea, AI; Ojeda-Gonzalez-Posada, A; Palla-Papavlu, A; Acsente, T; Grisolia, C; Delaporte, P; Dinescu, G; Lippert, T; Dinescu, M; "Pulsed laser removal of tungsten nanoparticle aggregates: Surface analysis and visualization of particle ejection dynamics"; *OPTICS AND LASER TECHNOLOGY* 135, 106664 (2021).
8. Andrei, F; Andrei, A; Birjega, R; Sirjita, EN; Radu, AI; Dinescu, M; Ion, V; Maraloiu, VA; Teodorescu, VS; Scarisoreanu, ND; "The Influence of the Structural and Morphological Properties of WO₃ Thin Films Obtained by PLD on the Photoelectrochemical Water-Splitting Reaction Efficiency"; *NANOMATERIALS* 11 (1) 110 (2021).
9. Sirjita, EN; Rusen, L; Brajnicov, S; Craciun, C; Ion, V; Filipescu, M; Dinescu, M; "Properties of Hafnium and Aluminium Silicates Coatings Obtained by PLD"; *COATINGS* 11 (7) 753 (2021).
10. Kanidi, M; Papagiannopoulos, A; Matei,; Dinescu, M; Pispas,; Kandyla, M, "Functional surfaces of laser-microstructured silicon coated with thermoresponsive PS/PNIPAM polymer blends: Switching reversibly between hydrophilicity and hydrophobicity", *Applied Surface Science* 527, DOI: 10.1016/j.apsusc.2020.146841, (2020)
11. Alin, CD, Grama, F, Papagheorghe, R, Brajnicov, S, Ion, V, Vizireanu, S, Palla-Papavlu, A, Dinescu, M, 10.1007/s00339-019-2714-6 Tuning the physicochemical properties of hernia repair meshes by matrix-assisted pulsed laser evaporation, *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*, DOI: 10.1007/s00339-019-2714-6,
12. Andrei, F; Vlad, A; Birjega, R; Tozar, T; Secu, M; Urzica, I; Dinescu, M; Zavoianu, R; "Hybrid layered double hydroxides-curcumin thin films deposited via Matrix Assisted Pulsed Laser Evaporation-MAPLE with photoluminescence properties"; *APPLIED SURFACE SCIENCE* 478, 754-761 (2019).
13. Filipescu, M; Palla-Papavlu, A; Bercea, A; Rusen, L; Cernaianu, MO; Ion, V; Calugar, A; Nistor, LC; Dinescu, M; "Antireflective coatings with high damage threshold prepared by laser ablation"; *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING* 125 (12) 815 (2019).
14. Constantinescu, C; Matei, A; Tabetah, M; Dinescu, M; Zhigilei, LV; Schou, J; "Compression of dry lysozyme targets: The target preparation pressure as a new parameter in protein thin film production by pulsed laser deposition"; *APPLIED SURFACE SCIENCE* 481, 120-124 (2019).
15. Ion, V; Scarisoreanu, ND; Bonciu, A; Moldovan, A; Ghenescu, V; Ghenescu, M; Banciu, MG; Andrei, A; Dinescu, M; "Multilayer protective coatings obtained by pulsed laser deposition"; *APPLIED SURFACE SCIENCE* 479, 1124-1131 (2019).
16. Andrei, F; Vlad, A; Birjega, R; Tozar, T; Secu, M; Urzica, I; Dinescu, M; Zavoianu, R; "Hybrid layered double hydroxides-curcumin thin films deposited via Matrix Assisted Pulsed Laser Evaporation-MAPLE with photoluminescence properties"; *APPLIED SURFACE SCIENCE* 478, 754-761 (2019).
17. Benetti, M; Cannata, D; Verona, E; Papavlu, AP; Dinca, VC; Lippert, T; Dinescu, M; Di Pietrantonio, F; "Highly selective surface acoustic wave e-nose implemented by laser direct writing"; *SENSORS AND ACTUATORS B-CHEMICAL* 283, 154-162 (2019).
18. F. Haydous, R. Birjega, V. Ion, T. Lippert, N. Dumitrescu, A. Moldovan, N. D. Scarisoreanu, V.S. Teodorescu, C. Ghica, R. Negrea, M. Dinescu, Rolling dopant and strain in Y-doped BiFeO₃ epitaxial thin films for photoelectrochemical water splitting, *SCIENTIFIC REPORTS* Volume: 8 Article Number: 15826, (2018)
19. V. Ion, F. Craciun, N.D. Scarisoreanu, A. Moldovan, A. Andrei, R. birjega, C. Ghica, F. DiPietrantonio, D. Cannata, M. Benetti, M. Dinescu, Impact of thickness variation on structural, dielectric and piezoelectric properties of (Ba,Ca)(Ti,Zr)O₃ epitaxial thin films, *SCIENTIFIC REPORTS*, DOI:10.1038/s41598-018-20149-y (2018)
20. Paun, IA; Popescu, RC; Mustaciosu, CC; Zamfirescu, M; Calin, BS; Mihailescu, M; Dinescu, M; Popescu, A; Chioibas, D; Soproniy, M; Luculescu, CR; "Laser-direct writing by two-photon

- polymerization of 3D honeycomb-like structures for bone regeneration"; *BIOFABRICATION* 10 (2) 25009 (2018).
21. N. D. Scarisoreanu, F. Craciun, V. Ion, R. Birjega, A. Bercea, V. Dinca, M. Dinescu, L. E. Sima, M. Icriverzi, A. Roseanu, L. Gruionu, and G. Gruionu, Lead-Free Piezoelectric (Ba,Ca)(Zr,Ti)O₃ Thin Films for Biocompatible and Flexible Devices, *ACS Appl. Mater. Interfaces*, 9 (1), pp 266–278, (2017)
 22. Palla-Papavlu, A; Filipescu, M; Schneider, CW; Antohe, S; Ossi, PM; Radnoczi, G; Dinescu, M; Wokaun, A; Lippert, T, "Direct laser deposition of nanostructured tungsten oxide for sensing applications", *JOURNAL OF PHYSICS D-APPLIED PHYSICS*, Volume: 49, Issue: 20, Pages: 5101-5101 (2016)
 23. Scarisoreanu, ND; Craciun, F; Birjega, R; Ion, V; Teodorescu, VS; Ghica, C; Negrea, R; Dinescu, M, "Joining Chemical Pressure and Epitaxial Strain to Yield Y-doped BiFeO₃ Thin Films with High Dielectric Response", *SCIENTIFIC REPORTS*, Volume: 6, Pages: 25535-25535 (2016)
 24. Mihailescu, M; Paun, IA; Zamfirescu, M; Luculescu, CR; Acasandrei, AM; Dinescu, M, "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 (2016)
 25. Barca, ES; Filipescu, M; Luculescu, C; Birjega, R; Ion, V; Dumitru, M; Nistor, LC; Stanciu,; Abrudeanu, M; Munteanu, C; Dinescu, M, "Pyramidal growth of ceria nanostructures by pulsed laser deposition", *Applied Surface Science*, Volume: 363, Pages: 245-251 (2016)
 26. Pauna, IA; Acasandrei AM; Luculescu, CR; Mustaciosu, CC; Ion, V; Mihailescu, M; Vasile, E; Dinescu, M; "MAPLE deposition of polypyrrole-based composite layers for bone regeneration" *Applied Surface Science*, (357) Part A, Pages:975–984 (2015)
 27. Scarisoreanu, ND; Craciun, F; Moldovan, A; Ion, V; Birjega, R; Ghica, C; Negrea, RF; Dinescu, M; "High Permittivity (1-x)Ba(Zr0.2Ti0.8)O-3 - x(Ba0.7Ca0.3)TiO3 (x=0.45) Epitaxial Thin Films with Nanoscale Phase Fluctuations"; *ACS APPLIED MATERIALS & INTERFACES* (7) , Pages: 23984-23992 (2015)
 28. Cristea, D; Crisan, A; Cretu, N; Borges, J; Lopes, C; Cunha, L; Ion, V; Dinescu, M; Barradas, NP; Alves, E; Apreutesei, M; Munteanu, D; "Structure dependent resistivity and dielectric characteristics of tantalum oxynitride thin films produced by magnetron sputtering"; *Applied Surface Science* (354) , Pages: 298-305 Part: B (2015)
 29. Dinca, V; Alloncle, P; Delaporte, P; Ion, V; Rusen, L; Filipescu, M; Mustaciosu, C; Luculescu, C; Dinescu, M; "Excimer laser texturing of natural composite polymer surfaces for studying cell-to-substrate specific response"; *Applied Surface Science* (352) , Pages: 82-90 (2015)
 30. Vlad, A; Birjega, R; Matei, A; Luculescu, C; Nedelcea, A; Dinescu, M; Zavoianu, R; Pavel, OD; "Detection of copper ions from aqueous solutions using layered double hydroxides thin films deposited by PLD"; *Applied Surface Science* (352) , Pages: 184-188 (2015)
 31. Paun, IA; Stokker-Cheregi, F; Luculescu, CR; Acasandrei, AM; Ion, V; Zamfirescu, M; Mustaciosu, CC; Mihailescu, M; Dinescu, M; "Electrically stimulated osteogenesis on Ti-PPy/PLGA constructs prepared by laser-assisted processes"; *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS* (55) , Pages: 61-69 (2015)
 32. Ion, V; Matei, A; Constantinescu, C; Ionita, I; Marinescu, M; Dinescu, M; Emandi, A; "Octahydroacridine thin films grown by matrix-assisted pulsed laser evaporation for non linear optical applications"; *MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING* (36) , Pages: 78-83 (2015)
 33. Matei, A; Constantinescu, C; Mitu, B; Filipescu, M; Ion, V; Ionita, I; Brajnicov, S; Alloncle, AP; Delaporte, P; Emandi, A; Dinescu, M; "Laser printing of azo-derivative thin films for non-linear optical applications"; *Applied Surface Science* (336), Pages: 200-205 (2015)
 34. Teodorescu, VS; Ghica, C; Maraloiu, AV; Vlaicu, M; Kuncser, A; Ciurea, ML; Stavarache, I; Lepadatu, AM; Scarisoreanu, ND; Andrei, A; Ion, V; Dinescu, M; "Nanostructuring of GeTiO

- amorphous films by pulsed laser irradiation"; BEILSTEIN JOURNAL OF NANOTECHNOLOGY (6) , Pages: 893-900 (2015)
35. Constantinescu, C; Rotaru, A; Nedelcea, A; Dinescu, M; "Thermal behavior and matrix-assisted pulsed laser evaporation deposition of functional polymeric materials thin films with potential use in optoelectronics"; MATERIALS SCIENCE IN SEMICONDUCTORPROCESSING (30) , Pages: 242-249 (2015)
 36. Cicco, N; Morone, A; Verrastro, M; Dinescu, M; Matei, A; Mitu, B; Centonze, D; "Deposition and Characterization of Laccase Thin Films Obtained by Matrix Assisted Pulsed Laser Evaporation"; SENSORS (319) , Pages: 47-51 (2015)
 37. Paun, IA; Zamfirescu, M; Mihailescu, M; Luculescu, CR; Mustaciosu, CC; Dorobantu, I; Calenic, B; Dinescu, M; "Laser micro-patterning of biodegradable polymer blends for tissue engineering"; JOURNAL OF MATERIALS SCIENCE (50) , Pages: 923-936 (2015)
 38. Palla-Papavlu, A; Dinescu, M; Wokaun, A; Lippert, T, „Laser-induced forward transfer of single-walled carbon nanotubes”, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, Volume: 117, Issue: 1, Pages: 371-376 (2014)
 39. Scarisoreanu, ND; Craciun, F; Birjega, R; Andrei, A; Ion, V; Negrea, RF; Ghica, C; Dinescu, M; „Strain-induced long range ferroelectric order and linear electro-optic effect in epitaxial relaxor thin films”, JOURNAL OF APPLIED PHYSICS, Volume: 116, Issue: 7, Article Number: 074106, (2014)
 40. Mihailescu, M; Popescu, RC; Matei, A; Acasandrei, A; Paun, IA; Dinescu, M, „Investigation of osteoblast cells behavior in polymeric 3D micropatterned scaffolds using digital holographic microscopy”, APPLIED OPTICS, Volume: 53, Issue: 22, Pages: 4850-4858 (2014)
 41. Constantinescu, C; Matei, A ; Ionita, I; Ion, V; Marascu, V; Dinescu, M; Vasiliu, C; Emandi, A, „Azo-derivatives thin films grown by matrix-assisted pulsed laser evaporation for non-linear optical applications”, Applied Surface Science, Volume: 302, Pages: 69-73 (2014)
 42. Constantinescu, C; Matei, A; Ion, V; Mitu, B; Ionita, I; Dinescu, M; Luculescu, CR; Vasiliu, C; Emandi, A; „Ferrocene carboxaldehyde thin films grown by matrix-assisted pulsed laser evaporation for non linear optical applications”, Applied Surface Science, Volume: 302, Pages: 83-86 (2014)
 43. Palla-Papavlu, A; Rusen, L; Dinca, V; Filipescu, M; Lippert, T ;Dinescu, M,” Characterization of ethylcellulose and hydroxypropyl methylcellulose thin films deposited by matrix-assisted pulsed laser evaporation”, Applied Surface Science, Volume: 302, Pages: 87-91 (2014)
 44. Vlad, A ; Birjega, R; Matei, A; Luculescu, C ; Mitu, B; Dinescu, M; Zavoianu, R; Pavel, OD, “Retention of heavy metals on layered double hydroxides thin films deposited by pulsed laser deposition”, Applied Surface Science, Volume: 302, Pages: 99-104 (2014)
 45. Rusen, L; Dinca, V; Mitu, B; Mustaciosu, C; Dinescu, M, „Temperature responsive functional polymeric thin films obtained by matrix assisted pulsed laser evaporation for cells attachment-detachment study”, Applied Surface Science, Volume: 302, Pages: 134-140 (2014)
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