

## National and International Conferences, Congresses, Schools and Workshops

### Invited/Keynote/Oral presentations – 39 (13 first author, 26 co-author)

39. “*Bioactivity and mechanical properties of hydroxyapatite on Ti6Al4V and Si(100) surfaces by pulsed laser deposition*”, Salizhan Kylychbekov, Yaran Allamyradov, **Liviu Duta**, Chazz Kitchens, Inomjon Majidov, Zikrulloh Khuzhakulov, Simran Banga, Jasminka Terzic, Ali Oguz Er, oral presentation at “Nanoscale and Quantum Materials: From Synthesis and Laser Processing to Applications 2024”, SPIE. Photonics West, San Francisco, California, USA, January 27-th – February 01-st, 2024;
38. “*Hydroxyapatite-Alumina-Zeolite Composite Coatings of Natural Origin Synthesized by PLD for Biomedical Applications*”, Popescu-Pelin G., Ristoscu C., **Duta L.**, Stan G.E., Pasuk I., Tite T., Stan M.S., Bleotu C., Popa M., Chifiriuc M.C., Oktar F.N., Mihailescu I.N, oral presentation at “International Conference on Lasers, Plasma, and Radiation – Science and Technology ICLPR-ST”, Palace of Parliament, Bucharest, Romania, June 7-th –10-th, 2022;
37. “*Bi-phasic calcium phosphate coatings of natural origin synthesized by pulsed laser deposition*”, Popescu-Pelin G., Ristoscu C., **Duta L.**, Stan G.E., Popa M., Chifiriuc M.C., Oktar F.N., and Mihailescu I.N., oral presentation (O 10.6) at E-MRS Spring Meeting – Virtual Conference, May 30-th – June 3-rd, 2022;
36. “*Thin films deposition of hydroxyapatite derived from various natural resources for implantological applications*”, **Liviu Duta**, George Stan, Carmen Chifiriuc, Florin Miculescu, Valentina Grumezescu, Gabriela Dorcioman, Elena Matei, Irina Zgura, Gianina Popescu-Pelin, Johny Neamtu, Faik Oktar, oral presentation at "20-th International Balkan Workshop on Applied Physics and Materials Science", Ovidius University, Constanta, Romania, July 12-th – 15-th, 2022;
35. “*Cytocompatible biological-derived hydroxyapatite coatings presenting antimicrobial activity*”, **L. Duta**, M.C. Chifiriuc, V. Grumezescu, G.E. Stan, O. Gherasim, G. Popescu-Pelin, V. Craciun, F.N. Oktar, oral presentation (session J, ref. J.7.3) at the E-MRS 2021 Fall Meeting, VIRTUAL Conference, September 20-th to 23-rd, 2021;
34. “*Study of different metal oxides films for integration in piezoelectric microsystems*”, H. Stroescu, M. Anastasescu, M. Chelu, E. Tenea, D. Mitrea, P. Terziyska, A. Szekeres, C. Moldovan, **L. Duta**, I.N. Mihailescu, R. Birjega, I. Boierasu, M. Dinescu, G.E. Stan, M. Zaharescu, M. Gartner, oral presentation (PR-13) at Twenty-First International Summer School On Vacuum, Electron And Ion Technologies (VEIT 2019), Sozopol, Bulgaria, 23-rd – 27-th September 2019;
33. “*AlN thin films for piezoelectric devices*”, H. Stroescu, M. Anastasescu, **L. Duta**, I.N. Mihailescu, G.E. Stan, A. Szekeres, C. Moldovan, M. Zaharescu, M. Gartner, oral presentation (F 1.6) at E-MRS Spring Meeting, Nice, France (Congress & Exhibition Centre Acropolis), May 27<sup>th</sup> to 31<sup>st</sup>, 2019;

32. “*Biocompatible biological-derived hydroxyapatite coatings with antimicrobial activity*”, **L. Duta**, M.C. Chifiriuc, G.E Stan, F.N. Oktar, V. Craciun, oral presentation (V 5.2) at E-MRS Spring Meeting, Nice, France (Congress & Exhibition Centre Acropolis), May 27<sup>th</sup> to 31<sup>st</sup>, 2019;
31. “*Implant-type bioceramic coatings synthesized from various low-cost sustainable biological-derived resources: physical-chemical properties and in vitro biofunctional performance*”, **L. Duta**, oral presentation at Workshop CETAL, National Institute for Lasers, Plasma and Radiation Physics, Magurele, Romania, July 17<sup>th</sup> - 18<sup>th</sup>, 2018;
30. “*Structure and biocompatibility properties of hydroxyapatite coatings deposited by pulsed laser technique*”, Sorin Ciuca, **Liviu Duta**, Andrei Berbecaru, Mihai Branzei, Ruxandra Paunescu-Dumitrescu, Olivia Dobrica, Ioana Gherghescu, oral presentation at „6<sup>th</sup> International Conference on Materials Science and Technology (ROMAT2016)”, Bucharest, Romania, 9<sup>th</sup> – 12<sup>th</sup> November, 2016;
29. “*SE method applied on thin films analysed with two different computer softwares – challenges and difficulties*”, H. Stoescu, M. Anastasescu, P. Terzyska, **L. Duta**, N. Mihailescu, A. Szekeres, M. Gartner, oral presentation at “7<sup>th</sup> International Workshop Advanced optical and X-ray characterization techniques of multifunctional materials for information and communication technologies, sensing and renewable energy applications”, Institute of Physical Chemistry "Ilie Murgulescu", Bucharest, Romania, September 16<sup>th</sup>-18<sup>th</sup>, 2015;
28. “*Multi-stage pulsed laser deposition of Aluminium Nitride films: Effect of deposition temperature*”, **L. Duta**, G.E. Stan, M. Anastasescu, H. Stroescu, M. Gartner, Zs. Fogarassy, N. Mihailescu, A. Szekeres, S. Bakalova, I.N. Mihailescu, oral presentation at “7<sup>th</sup> International Workshop Advanced optical and X-ray characterization techniques of multifunctional materials for information and communication technologies, sensing and renewable energy applications”, Institute of Physical Chemistry "Ilie Murgulescu", Bucharest, Romania, September 16<sup>th</sup>-18<sup>th</sup>, 2015;
27. “*Laser processing and immobilisation of TiO<sub>2</sub>/graphene oxide (GO)/noble metal nanocomposite materials*”, A. Datcu, **L. Duta**, A. Perez del Pino, C. Logofatu, A. Duta, E. Gyorgy, oral presentation (O1) at “11<sup>th</sup> International Conference on Optics “Micro-to Nano-Photonics IV” (ROMOPTO), Bucharest, Romania, September 1<sup>st</sup>-4<sup>th</sup>, 2015;
26. “*Smart technology for soft pulsed laser transfer of organic and biological compound*”, I.N. Mihailescu, C. Ristoscu, G. Socol, G.E. Stan, **L. Duta**, I. Negut, A. Visan, invited lecture at „Smart Engineering of New Materials (SENM)” Conference, Lodz, Poland, June 23<sup>rd</sup>-25<sup>th</sup>, 2015;
25. “*Morphological and structural characterization of Carbon thin films synthesized by Matrix Assisted Pulsed Laser Evaporation for medical applications*”, **Duta L.**, Ristoscu C., Axente E., Visan A., Mihailescu I.N., oral presentation at „Smart Engineering of New Materials (SENM)” Conference, Lodz, Poland, June 23<sup>rd</sup>-25<sup>th</sup>, 2015;
24. “*Photocatalytic nanocomposite materials grown by matrix assisted pulsed laser evaporation*”, A. Datcu, **L. Duta**, A. Perez del Pino, C. Luculescu, C. Logofatu, A.

Enesca, A. Duta, E. Gyorgy, oral presentation (CC.32) at Symposium CC, EMRS Spring Meeting, Lille, France, May 11<sup>th</sup>-15<sup>th</sup>, 2015;

23. “*Pure and doped hydroxyapatite thin films synthesized by pulsed laser deposition for metal implant coatings*”, A. Visan, S. Erakovic, A. Jankovic, C. Ristoscu, **L. Duta**, N. Mihailescu (Serban), G.E. Stan, M. Socol, O. Iordache, I. Dumitrescu, C.R. Luculescu, I.N. Mihailescu, Dj. Janackovic, V. Miskovic-Stankovic, oral presentation (O.10) at 5<sup>th</sup> International Student Conference on Photonics (ISCP), Orastie, Romania, September 23<sup>rd</sup>-26<sup>th</sup>, 2014;
22. “*Hard DLC protective coatings synthesized by Pulsed Laser Deposition*”, A.C. Popescu, **L. Duta**, C. Nita, G.E. Stan, C Popescu, M. Husanu, B. Bitu, R. Ghisleni, C. Himcinschi, A. Surdu, oral presentation (6 20) at Symposion G, EMRS Fall Meeting, Warsaw University of Technology, Poland, September 15<sup>th</sup>-19<sup>th</sup>, 2014;
21. “*Nanostructured glass coatings synthesized by pulsed laser deposition*”, **L. Duta**, A.C. Popescu, A.C. Popa, I.N. Mihailescu, invited oral presentation at 6<sup>th</sup> International Workshop "Advanced optical and X-ray characterization techniques of multifunctional materials for information and communication technologies, health and renewable energy applications", “Ilie Murgulescu” Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania, September 10<sup>th</sup>-14<sup>th</sup>, 2014;
20. “*DLC hard protective coatings synthesized by Pulsed Laser Deposition*”, C. Nita, **L. Duta**, G.E. Stan, C. Popescu, V. Craciun, M. Husanu, B. Bitu, R. Ghisleni, C. Himcinschi, A. C. Popescu, oral presentation (G.I 2) at Symposium G, EMRS Spring Meeting, Lille, France, May 26-30<sup>th</sup>, 2014;
19. “*Matrix Assisted Pulsed Laser Evaporation synthesis of biomimetic nanocrystalline apatite coatings with applications in medicine*”, A. Visan, D. Grossin, N. Stefan, **L. Duta**, F.M. Miroiu, G.E. Stan, M. Sopronyi, C. Luculescu, M. Freche, O. Marsan, C. Charvilat, S. Ciuca, I.N. Mihailescu, oral presentation (O5) at International Conference "Modern laser applications" Fourth Edition, Bran, Romania, 19-23<sup>rd</sup> May, 2014;
18. “*Laser assembling of thin bioceramic and biocomposite films on titanium utilizing Pulsed laser deposition (PLC) and Matrix-assisted pulsed laser evaporation (MAPLE) techniques*”, Sanja Eraković, Ana Janković, Carmen Ristoscu, **Liviu Duta**, Natalia Serban, Anita Visan, George E. Stan, Catalin Luculescu, Djordje Janacković, Ion N. Mihailescu, Vesna Mišković-Stanković, oral presentation at „12<sup>th</sup> Young Researchers’ Conference – Materials Science and Engineering (12YRC)”, SASA Institutes, Belgrade, Serbia, December 11-13<sup>th</sup>, 2013;
17. “*Pure and doped hydroxyapatite thin films synthesized by advanced laser techniques for metal implant coatings*”, A. Jankovic, N. Serban, **L. Duta**, S. Erakovic, C. Ristoscu, G.E. Stan, A. Visan, C. Luculescu, M.C. Chifiriuc, V. Miskovic-Stankovic, I.N. Mihailescu, oral presentation (O.4.7) at the „25<sup>th</sup> Symposium and Annual Meeting of the International Society for Ceramics in Medicine (Bioceramics 25)”, Bucharest, Romania, November 07-10<sup>th</sup>, 2013;
16. “*Biomimetic nanocrystalline apatite coatings synthesized by Matrix Assisted Pulsed Laser Evaporation for medical applications*”, A.Visan, D. Grossin, N. Stefan, **L. Duta**,

F. M. Miroiu, M. Sopronyi, F. Miculescu, M. Freche, C. Charvilat, O. Marsan, S. Ciuca, I.N. Mihailescu, oral presentation (O.4.6) at the „25<sup>th</sup> Symposium and Annual Meeting of the International Society for Ceramics in Medicine (Bioceramics 25)”, Bucharest, Romania, November 07-10<sup>th</sup>, 2013;

15. “*VIS/IR spectroscopy of AlN/Si thin films grown by pulsed laser deposition at 400°C and 800°C and various N<sub>2</sub> pressure*“, S. Bakalova, A. Szekeres, M. Anastasescu, M. Gartner, **L. Duta**, G. Socol, C. Ristoscu, I. N. Mihailescu, oral presentation (OP-6) at „18<sup>th</sup> International Summer School on Vacuum, Electron and Ion Technologies (VEIT)”, Sozopol, Bulgaria, October 7-11<sup>th</sup>, 2013;
14. “*Influence of a hydrophobin buffer layer on the structuring and antimicrobial properties of ZnO thin films synthesized by PLD on textile materials*“, **L. Duta**, A.C. Popescu, G.E. Stan, G. Dorcioman, I. Pasuk, I. Dumitrescu, I.N. Mihailescu, keynote presentation (W09-K7) at „International Conference of Physical Chemistry (ROMPHYSICHEM)”, 15<sup>th</sup> Edition, Bucharest, Romania, September 11-13<sup>th</sup>, 2013;
13. “*Biomimetic nanocrystalline apatite coatings synthesized by matrix assisted pulsed laser evaporation for medical applications*“, A. Visan, D. Grossin, N. Stefan, **L. Duta**, F. M. Miroiu, M. Sopronyi, F. Miculescu, M. Freche, C. Charvilat, O. Marsan, S. Ciuca, I. N. Mihailescu, oral presentation at „10<sup>th</sup> International Student Conference of the Balkan Physical Union (ISCBPU)”, Istanbul University, Faculty of Science, Istanbul, Turkey, September 3-5<sup>th</sup>, 2013;
12. “*A possible new thin coating solution for scratch resistance improvement of femoral head of total hip prosthesis*”, Capitanu L., Mirescu R., Badita L., Florescu V., **Duta L.**, Mihailescu I.N., oral presentation at “International Scientific Conference of the Society of Bulgarian Tribologist (BULTRIB’), devoted to the 80<sup>th</sup> anniversary of Prof. DSc Nyagol Manolov, Sofia, Bulgaria, October 19-20<sup>th</sup>, 2012;
11. “*The failure uncemented hip replacements from fracture stem prosthesis*”, Capitanu L., Mirescu R., Florescu V., Badita L., **Duta L.**, Mihailescu I.N., Bursuc D.C., oral presentation at “International Scientific Conference of the Society of Bulgarian Tribologist (BULTRIB’), devoted to the 80<sup>th</sup> anniversary of Prof. DSc Nyagol Manolov, Sofia, Bulgaria, October 19-20<sup>th</sup>, 2012;
10. “*ZnO nanostructures obtained by pulsed laser technologies: hydrophobic and antibacterial properties*”, Ion N. Mihailescu, Carmen Ristoscu, Andrei Popescu, **Liviu Duta**, oral presentation at “7<sup>th</sup> International Conference on Surfaces, Coatings and Nano-Structured Materials (NANOSMAT)”, Prague, Czech Republic, September 18-21, 2012;
9. “*Bioactive glass coatings synthesized by pulsed laser deposition*”, A.C. Popescu, C. Popescu, **L. Duta**, R. Mustata, D. Janackovic, V. Craciun, I.N. Mihailescu, oral presentation at “E-MRS Fall Meeting”, Symposium D, Warsaw University of Technology, Poland, September 17-21<sup>st</sup>, 2012;
8. “*Novel doped hydroxyapatite thin films obtained by Pulsed Laser Deposition*”, **L. Duta**, F.N. Oktar, G.E. Stan, I.N. Mihailescu, invited oral presentation at “4<sup>th</sup> International Workshop on Current trends and advanced ellipsometry and all X-ray techniques for the characterization of TCO, BIO and other nanostructured materials”,

“Ilie Murgulescu” Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania, September 12-14<sup>th</sup>, 2012.

7. “*Hydroxyapatite thin films synthesized by pulsed laser techniques for biomedical applications*”, **L. Duta**, seminary at “Nanotechnology and Biomaterials Application and Research Center”, Marmara University, Istanbul, Turkey, September 21<sup>st</sup>, 2011;
6. “*In vivo osseointegration of highly adherent hydroxyapatite thin films synthesized by PLD onto cranioplasty titanium mesh implants*”, **L. Duta**, A.C. Popescu, G. Socol, I.N. Mihailescu, A. Ianculescu, A. Chiriac, I. Poeata, oral presentation at “3<sup>rd</sup> International Workshop on Current trends and advanced ellipsometric and XRD techniques for the characterization of nanostructured materials”, “Ilie Murgulescu” Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania, September 15-16<sup>th</sup>, 2011;
5. “*Functional ZnO - hydrophobins hybrid thin films applied by PLD and impregnation on cotton/polyester fibers*”, I. Dumitrescu, A.M. Mocioiu, C. Radulescu, A. C. Popescu, G. Dorcioman, **L. Duta**, I. N. Mihailescu, M. Danciu, C. Panzaru, L. Surdu, oral presentation at International Conference “Application of Nanotechnologies for Textiles (TEX TEH III)”, Bucharest, Romania, October 7-8<sup>th</sup>, 2010;
4. “*Increased bioactivity of cranio-spinal implants functionalized with hydroxyapatite nanostructured coatings: morpho-structural characterization and in-vitro evaluation*”, **L. Duta**, F. Sima, I.N. Mihailescu, G.E. Stan, D.A. Marcov, L.E. Sima, S.M. Petrescu, A. Ianculescu, A. Chiriac, I. Poeata, invited lecture in plenary session of „Advanced Technologies for Enhanced Quality of Life (AT-EQUAL)” International Conference, Iasi, Romania, July 15-18<sup>th</sup>, 2010;
3. “*Functional hydrophobic and antibacterial textile materials covered with ZnO nanoparticles*”, A.C. Popescu, G. Dorcioman, **L. Duta**, I. N. Mihailescu, G.E. Stan, I. Zgura, I. Enculescu, I. Dumitrescu, oral presentation at “E-MRS Spring Meeting”, Symposium B, Strasbourg, June 07-11<sup>th</sup>, 2010;
2. “*Biocompatible and bioactive nanostructured glass coatings synthesized by pulsed laser deposition*”, A. Popescu, F. Sima, **L. Duta**, C. Cojanu, R. Mustata, S. Petrescu, D. Tanaskovic, D. Janackovic, I. N. Mihailescu, oral presentation at “E-MRS Spring Meeting”, Symposium B, Strasbourg, May 26-30<sup>th</sup>, 2008;
1. “*Bioglass coatings synthesized by pulsed laser deposition*”, **L. Duta**, oral presentation at International Conference “Modern Laser Applications (INDLAS)”, 2<sup>nd</sup> Edition, Bran, Romania, May 20-23<sup>th</sup>, 2008;

### **Poster presentations – 106 (50 first author, 56 co-author)**

106. “*Hydroxyapatite coatings on Ti6Al4V and Si(100) Surfaces by Pulsed Laser Deposition*”, Ali O Er, Salizhan Kylychbekov, Yaran Allamyradov, Justice ben Yosef, **Liviu Duta**, Inomjon Majidov, Zikrulloh Khuzhakulov, Simran Banga, poster presentation, Session M18: Optical Methods in Imaging and Therapy, Including

Quantum Photonics (M18.00009), APS March Meeting 2024, Minneapolis & Virtual, USA, March 04-th – 08-th, 2024;

105. “*Physical-chemical characteristics and in vitro biofunctional performance of bioceramic implant-type coatings fabricated from renewable sources*”, **L. Duta**, G.E. Stan, C.M. Chifiriuc, F.N. Oktar, poster presentation, Symposium Q „Advanced functional films grown by pulsed deposition methods – II” (Q\_P - 40\_2715) at the E-MRS Spring Meeting, Strasbourg, France, May 29-th – June 2-nd, 2023;
104. “*Cytocompatible and antimicrobial assessment of novel marine-derived hydroxyapatite coatings*”, **L. Duta**, G. Dorcioman, V. Grumezescu, G.E. Stan, C.M. Chifiriuc, G. Pircalabioru, F. Miculescu, F.N. Oktar, poster presentation, Symposium Q „Advanced functional films grown by pulsed deposition methods – II” (Q\_P - 32\_2578) at the E-MRS Spring Meeting, Strasbourg, France, May 29-th – June 2-nd, 2023;
103. “*Bi-phasic calcium phosphate coatings of natural origin synthesized by pulsed laser deposition*”, Gianina Popescu-Pelin, Carmen Ristoscu, **Liviu Duta**, Anita Ioana Visan, Iuliana Pasuk, George E. Stan, Miruna Silvia Stan, Marcela Popa, Mariana C. Chifiriuc, Claudiu Hapenciuc, Faik N. Oktar, Ion N. Mihailescu, poster presentation, 2023 ICTP Winter College on Optics: Terahertz Optics and Photonics, Trieste, Italy, February 6-th – 17-th, 2023;
102. “*PLD synthesis of hydroxyapatite-alumina-zeolite composite coatings from natural resources for biomedical applications*”, Popescu-Pelin G., Ristoscu C., **Duta L.**, Stan G.E., Popa M., Chifiriuc M.C., Oktar F.N., and Mihailescu I.N., poster presentation (O 8.13) at the E-MRS Spring Meeting – Virtual Conference, May 30-th – June 3-rd, 2022;
101. “*Pulsed laser deposition of hydroxyapatite derived from various biological resources for suitable use in implantology*”, **Liviu Duta**, George Stan, Mariana Chifiriuc, Florin Miculescu, Valentina Grumezescu, Gabriela Dorcioman, Elena Matei, Irina Zgura, Gianina Popescu-Pelin, Oana Gherasim, Johnny Neamtu, Faik Oktar, poster presentation (P4.09) at the “International Conference on Laser, Plasma and Radiation Science and Technology (ICLPR-ST)”, Palace of Parliament, Bucharest, Romania, June 07-th to 10-th, 2022;
100. “*Hydroxyapatites of marine origin as sustainable candidates for implantology*”, **Liviu Duta**, George E Stan, Valentina Grumezescu, Gabriela Dorcioman, Elena Matei, Irina Zgura, Oana Gherasim, Gianina Popescu-Pelin, Faik N Oktar, poster presentation (sciforum-057958) at the “3-rd International Online-Conference on Nanomaterials (IOCN 2022)”, VIRTUAL format, April 25-th to May 10-th, 2022;
99. “*Hydroxyapatite of various biological origin: from powders to thin film cytocompatibility assessment*”, **L. Duta**, V. Grumezescu, M.C. Chifiriuc, G.E Stan, O. Gherasim, I. Zgura, F.N. Oktar, poster presentation (O 8.29) at the Symposium O: Nano-engineered coatings and thin films: from design to applications, E-MRS 2022 Spring Meeting, VIRTUAL Conference, May 30-th to June 3-rd, 2022;

98. “*Marine-derived hydroxyapatite coatings synthesized by Pulsed laser deposition*”, **L. Duta**, G.E Stan, V. Grumezescu, G. Dorcioman, E. Matei, I. Zgura, O. Gherasim, G. Popescu-Pelin, F.N. Oktar, poster presentation (O 8.27) at the Symposium O: Nano-engineered coatings and thin films: from design to applications, E-MRS 2022 Spring Meeting, VIRTUAL Conference, May 30-th to June 3-rd;
97. “*Pulsed laser deposited bi-phasic calcium phosphate implant coatings fabricated from fish bones*”, Gianina Popescu-Pelin, Carmen Ristoscu, **Liviu Duta**, Iuliana Pasuk, George E. Stan, Miruna Silvia Stan, Marcela Popa, Mariana C. Chifiriuc, Claudiu Hapenciuc, Faik N. Oktar, Anca Nicarel, Ion N. Mihailescu, poster presentation (sciforum-054742) at 2021 International Conference on Materials: Advanced and Emerging Materials, November 22-24, 2021;
96. “*Bi-phasic calcium phosphate implant coatings fabricated by pulsed laser deposition of natural origin*”, Gianina Popescu-Pelin, Carmen Ristoscu, **Liviu Duta**, Iuliana Pasuk, George E. Stan, Miruna Silvia Stan, Marcela Popa, Mariana C. Chifiriuc, Claudiu Hapenciuc, Faik N. Oktar, Anca Nicarel, Ion N. Mihailescu, poster presentation (session I, ref. P.35) at the E-MRS 2021 Spring Meeting, VIRTUAL Conference, May 31-st to June 3-rd, 2021;
95. “*Influence of thermal treatments on the morpho-structural and mechanical characteristics of biological-derived HA coatings*”, **L. Duta**, V. Grumezescu, G.E Stan, O. Gherasim, G. Popescu-Pelin, F.N. Oktar, poster presentation (session P, ref. 18) at the E-MRS 2021 Spring Meeting, VIRTUAL Conference, May 31-st to June 3-rd, 2021;
94. “*Pulsed laser deposition of cytocompatible biological-derived hydroxyapatite coatings with antimicrobial activity*”, **L. Duta**, V. Grumezescu, M.C. Chifiriuc, G.E Stan, O. Gherasim, D. Chioibas, A.C. Popescu, F.N. Oktar, poster presentation (session P, ref. 17) at the E-MRS 2021 Spring Meeting, VIRTUAL Conference, May 31-st to June 3-rd, 2021;
93. “*Influence of the pulsed laser deposition conditions on the microstructure and mechanical properties of thin AlN films*”, A. Szekeres, A. Cziraki, Zs. Fogarassy, L. Kolaklieva, V. Chitanov, P. Terziyska, G.E. Stan, I.N. Mihailescu, **L. Duta**, poster presentation (PB-4) at Twenty-First International Summer School On Vacuum, Electron And Ion Technologies (VEIT 2019), Sozopol, Bulgaria, 23-rd – 27-th September 2019;
92. “*Biological-derived hydroxyapatite coatings synthesized by PLD from renewable resources*”, **L. Duta**, M.C. Chifiriuc, G.E Stan, F.N. Oktar, V. Craciun, poster presentation (V.P1.29 – invited for Young Scientists Forum, V.YSF.23) at E-MRS Fall Meeting, Warsaw University of Technology - Plac Politechniki 1, Warsaw, Poland, 16<sup>th</sup> – 19<sup>th</sup> September, 2019;
91. “*Lithium-doped biological hydroxyapatite coatings for biomedical applications*”, **L. Duta**, A.C Popescu, G.E. Stan, G. Popescu-Pelin, P.E. Florian, A. Roseanu, I. Zgura, F.N. Oktar, poster presentation (F.P1.27) at EMRS Spring Meeting Symposium F – Biomaterials and nanomedicine - Advanced biomaterials: elaboration, nanostructure,

interfaces with tissues, Convention Center of Strasbourg, France, June 18<sup>th</sup> – 22<sup>nd</sup>, 2018;

90. “*Physico-chemical and biological evaluation of synthetic and lithium-doped biological hydroxyapatite coatings obtained by PLD*”, G. Popescu-Pelin, G. Stan, S. Ciuca, F.N. Oktar, A. Achim, A. Berbecaru, **L. Duta**, poster presentation (F.P2.27) at EMRS Spring Meeting Symposium F – Biomaterials and nanomedicine - Advanced biomaterials: elaboration, nanostructure, interfaces with tissues, Convention Center of Strasbourg, France, June 18<sup>th</sup> – 22<sup>nd</sup>, 2018;
89. “*Mechanical, optical and structural properties of aluminum nitride synthesized by Pulsed Laser Deposition*”, L. Kolaklieva, V. Chitanov, K. Antonova, P. Terziyska, A. Szekeres, P. Petrik, Zs. Fogarassy, A. Romanenko, **L. Duta**, I. N. Mihailescu, poster presentation (X.PI.16) at EMRS Spring Meeting Symposium X – Material processing and characterization - Photon-assisted synthesis and processing of materials in nano-microscale, Convention Center of Strasbourg, France, June 18<sup>th</sup> – 22<sup>nd</sup>, 2018;
88. “*Lithium-doped biological-derived hydroxyapatite coatings synthesized by pulsed laser deposition for biomedical applications*”, Paula E. Florian, A.C. Popescu, G.E. Stan, G. Popescu-Pelin, I. Zgura, F.N. Oktar, Livia Elena Sima, Anca Roseanu, **Liviu Duta**, poster presentation (P 22) – selected for oral presentation – at "The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology", Romanian Academy Library, Heliade Radulescu Amphitheatre, Bucharest, September 5<sup>th</sup> – 7<sup>th</sup>, 2018;
87. “*Novel biocompatible lithium-doped hydroxyapatite coatings with antimicrobial activity synthesized by Pulsed Laser Deposition*”, **L. Duta**, M.C. Chifiriuc, G. Popescu-Pelin, C. Bleotu, G.P. Gradisteanu, A.C. Popescu, V. Craciun, poster presentation (D.P.18) at EMRS Fall Meeting Symposium D – Layered, hybrid and biomaterials - Multifunctional advanced composite materials: from idea to market, Warsaw University of Technology, Poland, September 17<sup>th</sup> – 20<sup>th</sup>, 2018;
86. “*Pulsed laser deposition of biocompatible lithium-doped biological-derived hydroxyapatite coatings with antimicrobial properties*”, **L. Duta**, M.C. Chifiriuc, G. Popescu-Pelin, C. Bleotu, G.P. Gradisteanu, A.C. Popescu, V. Craciun, poster presentation (T9-P2) at "12<sup>th</sup> International Conference on Physics of Advanced Materials (ICPAM-12)", Heraklion, Greece, September 22<sup>nd</sup> – 28<sup>th</sup>, 2018;
85. “*Optical and mechanical properties of aluminum nitride nanostructured thin films synthesized by pulsed laser deposition at different temperatures*”, K. Antonova, A. Szekeres, L. Kolaklieva, V. Chitanov, H. Stroescu, M. Gartner, **L. Duta**, I.N. Mihailescu, poster presentation at „Twentieth International Summer School on Vacuum, Electron and Ion Technologies (VEIT)”, Sozopol, Bulgaria, 25<sup>th</sup>–29<sup>th</sup> September, 2017;
84. “*Simple and reinforced biological-derived hydroxyapatite coatings for metallic implants*”, **L. Duta**, G.E. Stan, A.C. Popescu, P.E. Florian, G. Popescu-Pelin, V. Grumezescu, A. Achim, M. Enculescu, I. Zgura, F.N. Oktar, A. Roseanu, poster presentation at „15th Conference & Exhibition of the European Ceramic Society (ECerS2017)”, Budapest, Hungary, 9<sup>th</sup>–13<sup>th</sup> July, 2017;



83. “*Physical-chemical characterization and biological assessment of bovine derived hydroxyapatite thin films synthesized by pulsed laser deposition for a new generation of metallic implants*”, Paula E. Florian, Andrei C. Popescu, George E. Stan, Gianina Popescu-Pelin, M. Enculescu, Irina Zgura, Faik N. Oktar, Livia E. Sima, Anca Roseanu, **Liviu M. Duta**, poster presentation at Annual International Conference of Romanian Society of Biochemistry and Molecular Biology (RSBMB), Timisoara, Romania, 8<sup>th</sup>–9<sup>th</sup> June, 2017;
82. “*Physical, chemical and in vitro assessment of biological-derived HA thin films for a new generation of metallic implants*”, **L. Duta**, G.E. Stan, A.C. Popescu, G. Popescu-Pelin, A. Achim, M. Enculescu, I. Zgura, P.E. Florian, A. Roseanu, F.N Oktar, poster presentation (X P\_1.27) at EMRS Spring Meeting, Symposium X „New frontiers in laser interaction: from hard coatings to smart materials”, Strasbourg Convention Center, France, 22<sup>nd</sup>–26<sup>th</sup> May, 2017;
81. “*TEM and AFM Studies of AlN films synthesized by Pulsed Laser Deposition*”, Zs. Fogarassy, P. Petrik, **L. Duta**, G. Stan, I.N. Mihailescu, M. Anastasescu, M. Gartner, K. Antonova, A. Szekeres, poster presentation (X P\_1.20) at EMRS Spring Meeting, Symposium X „New frontiers in laser interaction: from hard coatings to smart materials”, Strasbourg Convention Center, France, 22<sup>nd</sup>–26<sup>th</sup> May, 2017;
80. “*In vitro investigations of highly adherent biological hydroxyapatite thin films for a new generation of implants*”, 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**, poster presentation (P–22) at International symposium „Priorities of Chemistry for a Sustainable Development” (PRIOCHEM, 12<sup>th</sup> edition), Bucharest, Romania, October 27<sup>th</sup> – 28<sup>th</sup>, 2016;
79. “*The effect of a “seed” layer upon multi-stage Pulsed Laser Deposition of Aluminum Nitride structures at different substrate temperatures*”, **Liviu-Marian Duta**, Hermine Maria Stroescu, George Stan, Mihai Anastasescu, Măriuca Gartner, Zsolt Fogarassy, Anna Szekeres and Ion Mihăilescu, poster presentation (S05-P10) at International Conference of Physical Chemistry (ROMPHYSICHEM 16), „Dunarea de Jos” University of Galati, Romania, September 21<sup>st</sup> – 23<sup>rd</sup>, 2016;
78. “*In vitro assessment of reinforced biological hydroxyapatite thin films for implantology applications*”, **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, poster presentation (P84) at 10<sup>th</sup> International Conference on Photoexcited Processes and Applications (ICPEPA-10), Brasov, Romania, August 29<sup>th</sup> – September 2<sup>nd</sup>, 2016;
77. “*Pulsed laser deposition of simple and reinforced biological hydroxyapatites for medical applications*”, **Liviu Duta**, Jeanina Lungu, George Stan, Andrei Popescu, Gianina Popescu-Pelin, Carmen Ristoscu, Faik Oktar, Ion Mihailescu, poster presentation (S2 P20) at 16<sup>th</sup> International Balkan Workshop on Applied Physics, Constanta, Romania, July 7<sup>th</sup> – 9<sup>th</sup>, 2016;
76. “*Mechanical testing of diamond-like carbon double-layered films synthesized by pulsed laser deposition*”, A.C. Popescu, **L. Duta**, C. Popescu, D. Cristea, V. Craciun, poster

presentation (C.PII.29) at EMRS Spring Meeting Symposium C – Laser-material interactions for tailoring future applications, Lille, France, May 2<sup>nd</sup>–6<sup>th</sup>, 2016;

75. “*Effect of deposition temperature upon multi-stage Pulsed Laser Deposition of Aluminum Nitride structures*”, **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, poster presentation (C.PI.35) at EMRS Spring Meeting Symposium C – Laser-material interactions for tailoring future applications, Lille, France, May 2<sup>nd</sup>–6<sup>th</sup>, 2016;
74. “*Comparative study between biological and synthetic hydroxyapatite thin films obtained by PLD for a new generation of implants*”, **L. Duta**, G.E. Stan, V. Grumezescu, C. Popescu, poster presentation (C.PII.39) at EMRS Spring Meeting Symposium C – Laser-material interactions for tailoring future applications, Lille, France, May 2<sup>nd</sup>–6<sup>th</sup>, 2016;
73. “*Functionalization of ultra-high molecular weight polyethylene acetabular cups with bioactive glass coatings synthesized by PLD*”, **L. Duta**, G. E. Stan, A. C. Popa, A. C. Popescu, poster presentation (C.PII.40) at EMRS Spring Meeting Symposium C – Laser-material interactions for tailoring future applications, Lille, France, May 2<sup>nd</sup>–6<sup>th</sup>, 2016;
72. “*The influence of thickness upon the biocompatibility of Titanium Nitride thin films synthesized by Pulsed Laser Deposition*”, **L. Duta**, G.E. Stan, A.C. Popa, A.C. Popescu, poster presentation (C.PI.34) at EMRS Spring Meeting Symposium C – Laser-material interactions for tailoring future applications, Lille, France, May 2<sup>nd</sup>–6<sup>th</sup>, 2016;
71. “*Highly adherent biological hydroxyapatite thin films reinforced with various oxides and metals for implantology applications*”, **L. Duta**, G.E. Stan, G. Popescu-Pelin, F.N. Oktar, N. Mihailescu, I.N. Mihailescu, A.C. Popescu, poster presentation (C.PII.39) at EMRS Spring Meeting Symposium C – Laser-material interactions for tailoring future applications, Lille, France, May 2<sup>nd</sup>–6<sup>th</sup>, 2016;
70. “*Orientation of the nanocrystallites in AlN thin film determined by FTIR spectroscopy*”, K. Antonova, Anna Szekeres, **L. Duta**, G.E. Stan, N. Mihailescu, I.N. Mihailescu, poster presentation (P3-1) at “Light in Nanoscience and Nanotechnology (LNN 2015)”, Hissar, Bulgaria, October 20<sup>th</sup>-22<sup>th</sup>, 2015;
69. “*Structural, optical and vibrational properties of nanostructured aluminum nitride films synthesized by multi-stage pulsed laser deposition*”, **L. Duta**, G.E. Stan, M. Anastasescu, H. Stroescu, M. Gartner, Zs. Fogarassy, N. Mihailescu, C. Luculescu, S. Bakalova, A. Szekeres, I.N. Mihailescu, poster presentation (PC-16) at “Nineteenth International Summer School on Vacuum, Electron and Ion Technologies (VEIT)”, Sozopol, Bulgaria, September 21<sup>st</sup>-25<sup>th</sup>, 2015;
68. “*Structural and mechanical properties of DLC coatings synthesized by pulsed laser deposition*”, **Liviu Duta**, A.C. Popescu, C. Popescu, B. Bitu, A. Husanu, C. Himcinschi, G.E. Stan, V. Craciun, Penka Terziyska, A.Szekeres, poster presentation (F.31) at Symposium F, EMRS Fall Meeting, Warsaw University of Technology, Poland, September 15<sup>th</sup>-18<sup>th</sup>, 2015;

67. “Titanium surfaces coated with carbon and silver nanoparticles inhibit colonization and biofilm formation of Gram positive bacteria”, M. Hussien, A.M. Holban, G. Socol, M. Popa, C. Bleotu, N. Mihailescu, **L. Duta**, G. Stan, V. Lazar, C. Hapenciuc, I. Negut, C. Ristoscu, I. Mihailescu, M.C. Chifiriuc, poster presentation at “The 6<sup>th</sup> EMBO meeting advancing the life sciences”, Birmingham, United Kingdom, September 5<sup>th</sup>-8<sup>th</sup>, 2015;
66. “Matrix-Assisted Pulsed Laser Evaporation of lignin addition to simple and silver-doped hydroxyapatite thin films: structural and biological evaluation”, N. Mihailescu, C. Ristoscu, A. Janković, S. Eraković, I.N. Mihailescu, G. E. Stan, **L. Duta**, A. Visan, A. C. Popa, M. A. Husanu, C. Bleotu, M. C. Chifiriuc, C. R. Luculescu, V. V. Srdić, Dj. Janačković, V. Mišković-Stanković, poster presentation (P.4.11) at International Conference “New Trends in Sensing- Monitoring- Telediagnosis for Life Sciences (NT SMT-LS)”, Brasov, Romania, 3-5 September, 2015;
65. “Morphological and structural characterisation of Carbon thin films synthesized by Matrix Assisted Pulsed Laser Evaporation for medical applications”, **L. Duta**, C. Ristoscu, E. Axente, A. Visan, I. N. Mihailescu, poster presentation (II.P.8.) at “11<sup>th</sup> International Conference on Optics “Micro- to Nano-Photonics IV” (ROMOPTO), Bucharest, Romania, September 1<sup>st</sup>-4<sup>th</sup>, 2015;
64. “Nanostructured thin films of reinforced hydroxyapatite with MgF<sub>2</sub> and MgO transferred by pulsed laser deposition”, N. Mihailescu, G. E. Stan, M. C. Chifiriuc, C. Bleotu, **L. Duta**, I. Urzica, C. Luculescu, F. N. Oktar, I. N. Mihailescu, poster presentation (II.P.2.) at “11<sup>th</sup> International Conference on Optics “Micro- to Nano-Photonics IV” (ROMOPTO), Bucharest, Romania, September 1<sup>st</sup>-4<sup>th</sup>, 2015;
63. “Hard protective Co-doped DLC films synthesized by PLD for cutting and drilling tools”, C. Popescu, **L. Duta**, G. Socol, G.E. Stan, M. Husanu, S. Iordache, I. Stamatin, C. Himcinschi, V. Craciun, A.C. Popescu, poster presentation (EE-PI 32) at Symposium EE, EMRS Spring Meeting, Lille, France, May 11<sup>th</sup> -15<sup>th</sup>, 2015;
62. “Highly adherent biological hydroxyapatite thin films grown by Pulsed Laser Deposition for a new generation of implants”, **L. Duta**, G.E. Stan, N. Serban, F.N. Oktar, I. N. Mihailescu, poster presentation (CC.PI 54) at Symposium CC, EMRS Spring Meeting, Lille, France, May 11<sup>th</sup> -15<sup>th</sup>, 2015;
61. “In-vitro biological assessment of ultra-high molecular weight polyethylene acetabular cups functionalized with bioactive glass coatings by pulsed laser deposition”, **L. Duta**, G.E. Stan, A.C Popescu, A.C. Popa, F. Miculescu, I.N. Mihailescu, poster presentation (CC.PI 51) at Symposium CC, EMRS Spring Meeting, Lille, France, May 11<sup>th</sup> -15<sup>th</sup>, 2015;
60. “Ag:hydroxyapatite coatings with antifungal activity synthesized by pulsed laser deposition on Ti and Ti modified by TiO<sub>2</sub> nanotubes substrates”, A. Visan, S. Erakovic, A. Jankovic, C. Ristoscu, **L. Duta**, N. Mihailescu (Serban), G.E. Stan, M. Socol, O. Iordache, I. Dumitrescu, C.R. Luculescu, I.N. Mihailescu, Dj. Janackovic, V. Miskovic-Stankovic, poster presentation (CC.PI 35) at Symposium CC, EMRS Spring Meeting, Lille, France, May 11<sup>th</sup> -15<sup>th</sup>, 2015;

59. “*Structural and biological characterization of lignin incorporation to simple and silver-doped hydroxyapatite coatings synthesized by matrix-assisted pulsed laser evaporation*”, A. Visan, A. Janković, S. Eraković, C. Ristoscu, N. Mihailescu (Serban), **L. Duta**, G.E. Stan, A.C. Popa, M.A. Husanu, C.R. Luculescu, V.V. Srdić, Dj. Janačković, V. Mišković-Stanković, C. Bleotu, M.C. Chifiriuc, I.N. Mihailescu, poster presentation (CC.PI 33) at Symposium CC, EMRS Spring Meeting, Lille, France, May 11<sup>th</sup> -15<sup>th</sup>, 2015;
58. “*Multi-stage pulsed laser deposition of Aluminum Nitride at different temperatures*”, **L. Duta**, G.E. Stan, M. Anastasescu, H. Stroescu, M. Gartner, N. Mihailescu, C. Luculescu, S. Bakalova, A. Szekeres, I.N. Mihailescu, poster presentation (CC.PI 46) at Symposium CC, EMRS Spring Meeting, Lille, France, May 11<sup>th</sup> -15<sup>th</sup>, 2015;
57. “*Fabrication and characterizations of pure and doped hydroxyapatite coatings for medical applications*”, A. Visan, S. Erakovic, A. Jankovic, C. Ristoscu, **L. Duta**, N. Mihailescu (Serban), G.E. Stan, M. Socol, O. Iordache, I. Dumitrescu, C.R. Luculescu, I.N. Mihailescu, Dj. Janackovic, V. Miskovic-Stankovic, poster presentation at 4<sup>th</sup> International Colloquium “Physics of Materials” (PM-4), University „Polytechnica” of Bucharest, Bucharest, Romania, November, 13<sup>th</sup>-14<sup>th</sup>, 2014;
56. “*Transparent conductive oxides grown by combinatorial PLD technique*”, G. Popescu-Pelin, D. Craciun, V. Craciun, G. Socol, A. C. Galca, A. Visan, C.R. Luculescu, A. Stanculescu, M. Socol, N. Stefan, E. Axente, **L. Duta**, C.N. Mihailescu, V. Sava, Ion N. Mihailescu, poster presentation (P.23) at 5<sup>th</sup> International Student Conference on Photonics (ISCP), Oraştie, Romania, September 23<sup>rd</sup>-26<sup>th</sup>, 2014;
55. “*ZnO and hydrophobin thin coatings on textiles substrates for biomedical applications*”, Anita Ioana Visan, A.C. Popescu, G. E. Stan, **L. Duta**, G. Dorcioman, O. Iordache, I. Dumitrescu, I. Pasuk, I. N. Mihailescu, poster presentation (C.2) at „Transition Metal Oxide Thin Films-functional Layers in “Smart windows” and Water Splitting devices: Technology and Optoelectronic properties” Workshop (INERA), Varna, Bulgaria, September 4<sup>th</sup>-6<sup>th</sup>, 2014;
54. “*Multilayered AlN thin films synthesized on silicon substrates by pulsed laser deposition at different temperatures*”, **L. Duta**, S. Bakalova, G.E. Stan, N. Mihailescu, A. Szekeres, I. N. Mihailescu, poster presentation (2.13) at 18<sup>th</sup> International School on Condensed Matter Physics, St. Constantine & Helena, Varna, Bulgaria, September 1<sup>st</sup>-6<sup>st</sup>, 2014;
53. “*Er and Eu doped TiO<sub>2</sub> thin films grown by matrix assisted pulsed laser evaporation from colloidal solutions: structure and optical properties*”, **L. Duta**, C. Nita, I. Camps, R. Serna, M. Borlaf, M. T. Colomer, R. Moreno, A. Pérez del Pino, C. Logofatu, E. György, poster presentation (JP.XI 26) at Symposium J, EMRS Spring Meeting, Lille, France, May 26-30<sup>th</sup>, 2014;
52. “*Light emitting TiO<sub>2</sub>: Eu thin films produced by matrix assisted pulsed laser evaporation from colloidal sols*”, I. Camps, **L. Duta**, C. Nita, E. György, M. Borlaf, R. Serna, C. Logofatu, M. T. Colomer, R. Moreno, poster presentation (I.P3. 10) at Symposium I, EMRS Spring Meeting, Lille, France, May 26-30<sup>th</sup>, 2014;

51. “*Transfer by pulsed laser deposition of biological hydroxyapatite thin films doped with MgF<sub>2</sub>, MgO and Ti*”, N. Mihailescu, G. E. Stan, **L. Duta**, F. N. Oktar, M. Sopronyi, C. Luculescu, M. C. Chifiriuc, C. Ristoscu, I. N. Mihailescu, poster presentation (JP.VIII 50) at Symposium J, EMRS Spring Meeting, Lille, France, May 26-30<sup>th</sup>, 2014;
50. “*Synthesis of biological hydroxyapatite thin films by pulsed laser deposition*”, **L. Duta**, G.E. Stan, N. Serban, F.N. Oktar, I.N. Mihailescu, poster presentation (JP.VIII 21) at Symposium J, EMRS Spring Meeting, Lille, France, May 26-30<sup>th</sup>, 2014;
49. “*Morphological, structural and biological characteristics of ultra-high molecular weight polyethylene acetabular cups functionalized with bioactive glass coatings by pulsed laser deposition*”, **L. Duta**, G.E. Stan, A.C Popescu, A.C. Popa, F. Miculescu, I.N. Mihailescu, poster presentation (JP.VIII 20) at Symposium J, EMRS Spring Meeting, Lille, France, May 26-30<sup>th</sup>, 2014;
48. “*Matrix Assisted Pulsed Laser Evaporation synthesis of biomimetic nanocrystalline apatite coatings for biomedical applications*”, A. Visan, D. Grossin, N. Stefan, **L. Duta**, F.M. Miroiu, G.E. Stan, M. Sopronyi, C. Luculescu, M. Freche, O. Marsan, C. Charvilat, S. Ciuca, I.N. Mihailescu, poster presentation (JP.VIII 5) at Symposium J, EMRS Spring Meeting, Lille, France, May 26-30<sup>th</sup>, 2014;
47. “*Titanium mesh implants biofunctionalized with hydroxyapatite thin films by pulsed laser deposition*”, **L. Duta**, G.E. Stan, A.C. Popescu, I.N. Mihailescu, I. Poata, A. Chiriac, poster presentation (P21) at the „25<sup>th</sup> Symposium and Annual Meeting of the International Society for Ceramics in Medicine (Bioceramics 25)”, Bucharest, Romania, November 07-10<sup>th</sup>, 2013;
46. “*Synthesis and characterization of anion doped and noble metal loaded TiO<sub>2</sub> photocatalysts*”, **L. Duta**, C. Popescu, A. Popescu, C. Logofatu, A. Duta, E. György poster presentation (P2-80) at the „12<sup>th</sup> International Conference on laser Ablation (COLA)”, Ischia, Italy, October 6-11<sup>th</sup>, 2013;
45. “*Optimization of deposition conditions for synthesis of hard carbon thin films with high adherence and low surface energy*”, C. Nita, A.C. Popescu, G.E. Stan, C. Popescu, **L. Duta**, V. Craciun, M. Husanu, B. Bitu, poster presentation (PP-27-SON) at „10<sup>th</sup> International Student Conference of the Balkan Physical Union (ISCBPU)”, Istanbul University, Faculty of Science, Istanbul, Turkey, September 3-5<sup>th</sup>, 2013;
44. “*Silver/hydroxyapatite coating on pure and anodized titanium obtained by pulsed laser deposition*”, S. Eraković, A. Janković, C. Ristoscu, **L. Duta**, N. Serban, A. Visan, I.N. Mihailescu, G.E. Stan, M. Socol, O. Iordache, I. Dimitrescu, C.R. Luculescu, Dj. Janačković, V. Mišković-Stanković, poster presentation (P.S.E.12) at „15<sup>th</sup> Annual Conference (YUCOMAT)”, Herceg Novi, Montenegro, September 2-6<sup>th</sup>, 2013;
43. “*Biomimetic nanocrystalline apatite coatings synthesized by Matrix Assisted Pulsed Laser Evaporation for medical applications*”, A.Visan, D. Grossin, N. Stefan, **L. Duta**, F. M. Miroiu, M. Sopronyi, F. Miculescu, M. Freche, C. Charvilat, O. Marsan, S. Ciuca, I.N. Mihailescu, poster presentation (S4 P13) at the „13<sup>th</sup> International Balkan Workshop on Applied Physics and Materials Science (IBWAP)”, Constanta, Romania, July 4-6<sup>th</sup>, 2013;

42. “*Finishing treatment of textile materials with ZnO thin films or particles. Boost of antimicrobial efficiency in presence of hydrophobins*”, **L. Duta**, A.C. Popescu, G.E. Stan, I.N. Mihailescu, poster presentation (P.III-30) at “E-MRS Spring Meeting”, Symposium O, Strasbourg, France, May 27-31<sup>st</sup>, 2013;
41. “*Biofunctional, adherent hydroxyapatite thin films applied by Pulsed Laser Deposition onto titanium mesh implants for cranioplasty applications*”, **L. Duta**, G.E. Stan, A.C. Popescu, I.N. Mihailescu, I. Poeata, A. Chiriac, poster presentation (V.PI 38) at “E-MRS Spring Meeting”, Symposium V, Strasbourg, France, May 27-31<sup>st</sup>, 2013;
40. “*Doped biological hydroxyapatite thin films synthesized by Pulsed Laser Deposition for a new generation of implants*”, **L. Duta**, G.E. Stan, F.N. Oktar, N. Serban, I.N. Mihailescu, poster presentation (V.PI 37) at “E-MRS Spring Meeting”, Symposium V, Strasbourg, France, May 27-31<sup>st</sup>, 2013;
39. “*Pure and doped hydroxyapatite thin films synthesized by advanced laser techniques for metal implant coatings*”, A. Jankovic, N. Serban, **L. Duta**, S. Erakovic, C. Ristoscu, G.E. Stan, A. Visan, C. Luculescu, M.C. Chifiriuc, V. Miskovic-Stankovic, I.N. Mihailescu, poster presentation (V.PI 35) at “E-MRS Spring Meeting”, Symposium V, Strasbourg, France, May 27-31<sup>st</sup>, 2013;
38. “*CdS/CdTe/ZnTe thin-film solar cells fabricated by Pulsed Laser Deposition*”, G. Socol, M. Socol, N. Stefan, E. Axente, G. Popescu-Pelin, D. Craciun, **L. Duta**, I. N. Mihailescu, A. Stanculescu, D. Visan, A. C. Galca, M. Jelinek, V. Craciun, poster presentation (V.PI 16) at “E-MRS Spring Meeting”, Symposium V, Strasbourg, France, May 27-31<sup>st</sup>, 2013;
37. “*Nanostructured thin films of doped hydroxyapatite with MgF<sub>2</sub>, MgO or Ti transferred by pulsed laser deposition*”, N. Serban, **L. Duta**, F.N. Oktar, G.E. Stan, C. Luculescu, G. Popescu-Pelin, I.N. Mihailescu, poster presentation (V.PI 36) at “E-MRS Spring Meeting”, Symposium V, Strasbourg, France, May 27-31<sup>st</sup>, 2013;
36. “*PLD deposited thin films on titanium modified by TiO<sub>2</sub> nanotubes*”, S. Erakovic, A. Jankovic, C. Ristoscu, **L. Duta**, N. Serban, A. Visan, G. Stan, M. Socol, C.R. Luculescu, I.N. Mihailescu, V. Miskovic-Stankovic, poster presentation (SS-O-18) at “4<sup>th</sup> Regional Symposium on Electrochemistry South East Europe (RSE-SEE)”, Ljubljana, Slovenia, May 26-30<sup>th</sup>, 2013;
35. “*Finishing treatment of textile materials with ZnO thin films or nanoparticles. Influence of a hydrophobin buffer layer*”, **L. Duta**, A.C. Popescu, G.E. Stan, G. Dorcioman, I. Dumitrescu, I.N. Mihailescu, poster presentation (P28) at International Conference “Modern Laser Applications (INDLAS)”, 3<sup>rd</sup> Edition, Bran, Romania, May 20-24<sup>th</sup>, 2013;
34. “*Biomimetic nanocrystalline apatite coatings synthesized by Matrix Assisted Pulsed Laser Evaporation for medical applications*”, A. Visan, D. Grossin, N. Stefan, **L. Duta**, F. M. Miroiu, M. Sopronyi, F. Miculescu, M. Freche, C. Charvilat, O. Marsan, S. Ciuca, I.N. Mihailescu, poster presentation (P29) at International Conference "Modern Laser Applications (INDLAS)", 3<sup>rd</sup> Edition, Bran, Romania, May 20-24<sup>th</sup>, 2013;

33. “*Doped biological hydroxyapatite thin films synthesized by Pulsed Laser Deposition*”, **L. Duta**, G.E. Stan, F.N. Oktar, N. Serban, I. N. Mihailescu, poster presentation (P27) at International Conference "Modern Laser Applications (INDLAS)", 3<sup>rd</sup> Edition, Bran, Romania, May 20-24<sup>th</sup>, 2013;
32. “*ZnO nanoprofiles evaluation by an Evanescent Light Method*”, N. Mirchin, I. Lapsker, A. Peled, **L. Duta**, G. Dorcioman, A.C. Popescu, I.N. Mihailescu, poster presentation at “Nanocomposites of inorganic fullerenes/nanotubes, their characterization, properties & testing (COINAPO 2012)” International Conference, The David Lopatie Conference Center, Weizmann Institute of Science, Israel, November 19-21<sup>st</sup>, 2012;
31. „*Hydrophobic, antibacterial and antifungal textile materials finished with ZnO nanostructures*”, A. Popescu, G. Dorcioman, **L. Duta**, C. Popescu, O. Iordache, I. Dumitrescu, G. Stan, I. Pasuk, I.N. Mihailescu, poster presentation at “Nanobelgrade Conference”, Belgrade, Serbia, September 26-28<sup>th</sup>, 2012;
30. „*Adherent hydroxyapatite thin films synthesized by Pulsed Laser Deposition onto titanium implants*”, **L. Duta**, F.N. Oktar, G.E. Stan, D. Craciun, G. Popescu-Pelin, N. Serban, A.C. Popescu, I.N. Mihailescu, poster presentation at “E-MRS Fall Meeting”, Symposium D, Warsaw University of Technology, Poland, September 17-21<sup>st</sup>, 2012;
29. „*Hydroxyapatite thin films synthesized by Pulsed Laser Deposition and radio Frequency-Magnetron Sputtering onto titanium mesh implants*”, **L. Duta**, G.E. Stan, G. Socol, A.C. Popescu, F.M. Miroiu, I.N. Mihailescu, A. Ianculescu, A. Chiriac, I. Poata, poster presentation at International Conference „Micro- to Nano-Photonics III (ROMOPTO)”, Bucharest, Romania, September 3-6<sup>th</sup>, 2012;
28. „*Compositional assay of steels by laser induced breakdown spectroscopy and spark optical emission spectroscopy*”, A. C. Popescu, E. Mothe, C. Popescu, **L. Duta**, D. Craciun, V. Craciun, I. N. Mihailescu, J. Hermann, I. Pencea, E. C. Sfat, A. Bodea, poster presentation at “E-MRS Spring Meeting”, Symposium V, Strasbourg, France, May 19-23<sup>rd</sup>, 2012;
27. „*Morpho-structural and tribological characterization of TiN films synthesized by PLD*”, **L. Duta**, L. L. Badita, L. Capitanu, G. Popescu-Pelin, C.R. Luculescu, N. Serban, S. Moga, D. Negrea, I. N. Mihailescu, poster presentation at “E-MRS Spring Meeting”, Symposium U, Strasbourg, France, May 19-23<sup>rd</sup>, 2012;
26. „*Characterization of novel doped hydroxyapatite thin films obtain by Pulsed Laser Deposition*”, **L. Duta**, F.N. Oktar, G.E. Stan, G. Popescu-Pelin, N. Serban, C. Luculescu, I. N. Mihailescu, poster presentation at “E-MRS Spring Meeting”, Symposium V, Strasbourg, France, May 19-23<sup>rd</sup>, 2012;
25. “*Pulsed Laser Deposition of Transparent Conductive Oxide thin films on flexible substrates*”, G. Socol, M. Socol, N. Stefan, E. Axente, G. Pelin, D. Craciun, **L. Duta**, C.N. Mihailescu, I. N. Mihailescu, A. Stanculescu, D. Visan, A. C. Galca, V. Craciun, poster presentation at “E-MRS Fall Meeting”, Symposium A, Warsaw University of Technology, Poland, September 19-23<sup>rd</sup>, 2011;
24. „*IT-SOFC electrolyte behavior subjected to the laser beam irradiation*”, A.M. Ionascu, I. Mercioniu, **L. Duta**, I. Mihailescu, P.V. Notingher, N. Popescu – Pogriion,

poster presentation at “European Congress and Exhibition on Advanced Materials and Processes”, Montpellier, France, September 12-15<sup>th</sup>, 2011;

23. “*The morphology of thin layers of biomaterials on dental implants obtained with the help of Pulsed Laser Deposition (PLD) method*”, D.A. Maris, Maria Maris, C. Amariei, R. Sarbu, T. Negreanu, Marius Maris, **L. Duta**, G. Dorcioman, I.N. Mihailescu, E. Vasile, poster presentation at “XII<sup>th</sup> International Balcanic Workshop for Applied Physics”, Aula Magna, “Ovidius” University, Constanta, Romania, July 6-8<sup>th</sup>, 2011;
22. “*Optical, structural and electrical properties of transparent conductive Nd:TiO<sub>2</sub> thin films obtained by Pulsed Laser Deposition*”, G. Socol, **L. Duta**, N. Stefan, E. Axente, C.N. Mihailescu, G. Popescu, C. Galca, C. Luculescu, M. Socol, A. Stanculescu, D. Craciun, I. N. Mihailescu, V. Craciun, poster presentation at “E-MRS Spring Meeting”, Symposium D, Nice, France, May 09-13<sup>th</sup>, 2011;
21. “*Study of electrodes - electrolytes systems for IT-SOFC applications*”, **L. Duta**, G. Dorcioman, A. Popescu, I. N. Mihailescu, P.Nita, I. Mercioniu, I. Bibicu, S. Constantinescu, N. Popescu-Pogriion, poster presentation at “E-MRS Spring Meeting”, Symposium X, Nice, France, May 09-13<sup>th</sup>, 2011;
20. “*Morpho-structural and biological investigations of ZnO – hydrophobins nanostructured thin films obtained by PLD and impregnation on 56% cotton/44% polyester fabrics*”, **L. Duta**, G. Dorcioman, A. Popescu, I. N. Mihailescu, A.M. Mocioiu, I. Dumitrescu, C. Panzaru, M. Danciu, poster presentation at “E-MRS Spring Meeting”, Symposium K, Nice, France, May 09-13<sup>th</sup>, 2011;
19. “*Nanostructured adherent hydroxyapatite thin films synthesized by PLD and RF-MS onto cranioplasty titanium mesh implants*”, **L. Duta**, G.E. Stan, G. Socol, F. Sima, I.N. Mihailescu, L.E. Sima, S.M. Petrescu, A. Ianculescu, A. Chiriac, I. Poeata, poster presentation at “E-MRS Spring Meeting”, Symposium P, Nice, France, May 09-13<sup>th</sup>, 2011;
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16. „*Study of polyethylene nanolayers by evanescent light microscopy*”, S.A Popescu, B. Apter, N. Mirchin, U. Gorodetsky, I. Lapsker, A. Peled, **L. Duta**, G. Dorcioman, A. Popescu, C. Ristoscu, I. N. Mihailescu, poster presentation at “7th International



Conference on Photo-Excited Processes and Applications (ICPEPA-7)", Danmark, August 15-20<sup>th</sup>, 2010;

15. „*ZnO nanoparticles and thin films deposited on hydrophobic textile material substrates for biomedical applications*”, **L. Duta**, A.C. Popescu, G. Dorcioman, I. N. Mihailescu, G.E. Stan, I. Zgura, I. Enculescu, I. Dumitrescu, poster presentation at „Technological Innovations in Detection and Sensing of Chem.-Bio-Radiological-Nuclear and Ecological Terrorism”, NATO-ASI School, Chisinau, Moldova, June 07-17<sup>th</sup>, 2010;
14. "*In vivo histointegration study of surface-coated titanium implants*", D.A. Maris, Maria Maris, M. Maris, **L. Duta**, A. C. Popescu, Gabriela Dorcioman, Natalia Serban, I. N. Mihailescu, S. Croitoru, I. Popovici, poster presentation at “E-MRS Spring Meeting”, Symposium B, Strasbourg, June 07-11<sup>th</sup>, 2010;
13. „*Growth of IZO films by the Combinatorial Pulsed Laser Deposition Technique*”, G. Socol, **L. Duta**, C. Mihailescu, F. Sima, D. Craciun, V. Craciun, poster presentation at “E-MRS Spring Meeting”, Symposium R, Strasbourg, June 07-11<sup>th</sup>, 2010;
12. „*Morphology of polyethylene nanolayers: a study by Evanescent Light Microscopy*”, Igor Lapsker, Nina Mirchin, Uri Gorodetsky, Simona Popescu, Aaron Peled, **Liviu Duta**, Gabriela Dorcioman, Andrei Popescu, Ion N. Mihailescu, poster presentation at the “14<sup>th</sup> Israel Materials Engineering Conference (IMEC-14)”, Tel-Aviv, Israel, December 13-14<sup>th</sup>, 2009;
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9. “*Bioglass nanostructures used as coatings for biomimetic metallic implants*”, **L. Duta**, A. Popescu, C. Popescu, F. Sima, C. Ristoscu, I. N. Mihailescu, L. Sima, S. Petrescu, D. Tanaskovic, D. Janakovic, poster presentation at “3<sup>rd</sup> International Conference on Biomaterials and Medical Devices (BiomMedD’)”, Bucharest, Romania, November 13-16<sup>th</sup>, 2008;
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