

Postere:

A. Palla-Papavlu, V. Dinca, V. Ion, A. Moldovan, B. Mitu, C. Luculescu and M. Dinescu, Characterization of polymer thin films obtained by pulsed laser deposition, Conferinta E-MRS 7- 11 Iunie 2010, Strasbourg (Franta)

- **Premiul „Young student”** pentru cea mai buna lucrare prezentata

Palla-Papavlu, I. Paraico, J. Shaw-Stewart, V. Dinca, T. Savopol, E. Kovacs, T. Lippert, A. Wokaun and M. Dinescu, Liposome micropatterning based on laser induced forward transfer, IInd International School “Laser Surface Interactions for new materials production: tailoring structure and properties”, Isola di San-Servolo, Venezia (Italy), 11 – 18 Iulie2010

- **Premiul Roger Kelly** pentru cel mai bun poster prezentat

Alexandra Palla-Papavlu, Valentina Dinca, Maria Dinescu, Direct patterning of biologically active polystyrene nano and micro spheres EMRS 2011, Nisa, Franta

Palla-Papavlu, J. Shaw-Stewart, T. Mattle, T. Lippert, A. Wokaun, M. Dinescu, Effect of liquid solution viscosity in the lift process studied by shadowgraphy imaging , EMRS 2011, Nisa, Franta

Catalin Goldner-Constantinescu, Maria Dinescu, Petre Rotaru, Thermal and microstructural analysis of some hybrid metal-organic complex materials and thin films deposition by MAPLE , Central and Eastern European Committee for Thermal Analysis and Calorimetry (CEEC-TAC1) – Craiova, Romania, 7-10 Septembrie 2011

M. Dinescu, A. Palla-Papavlu, V. Dinca, I. Paraico, J. Shaw-Stewart, M. Nagel, T. Lippert Three dimensional polymer patterning for ordered cellular networks, Conferinta MRS, Boston, America, 27.11.10 –3.12.10

Polymer micro and nanopatterning using laser transfer onto soft substrates assisted by a dynamic release layer, V. Dinca, T. Mattle A. Palla Papavlu, M. Filipescu, M. Dinescu, A. Wokaun, T. Lippert, , EMRS 2012, Strasbourg, Franta

Palla Papavlu, T. Mattle, V. Dinca, , M. Dinescu,, T. Lippert Shadowgraphy investigation of LIFT of liquids, EMRS 2012, Strasbourg, Franta

Prezentari orale/lectii invitate:

M. Dinescu, A. Palla – Papavlu, V. Dinca, D. Cannata, F. Dipietrantonio, M. Benetti, E. Verona, T. Mattle, J. Shaw – Stewart, T. Lippert Polymer membrane patterning for sensor applications Conferinta MRS, Boston, America, 27.11.10 –3.12.10

M. Dinescu, A. Palla-Papavlu, V. Dinca, M. Filipescu, Multi ribbons polymers donors deposited by Matrix Assisted Pulsed Laser Evaporation (MAPLE) 4th International Symposium on Flexible Organic Electronics (IS-FOE11), 10-13 Iulie 2011, Thessaloniki, Grecia

M. Dinescu, Sensors based on LIFT of chemoselective polymers (Lectie invitata), E-MRS, Nisa, Franta (Mai 2011)

A.Palla-Papavlu, V. Dinca, M. Dinescu, F. Di Pietrantonio, D. Cannatà, M. Benetti, E. Verona, T. Mattle, T. Lippert, COLA Cancun, Mexic, 2011 Detection of sarin gas by chemoselective polymers transferred by laser induced forward transfer

V. Dinca, Polymer patterning by Laser Induced Forward Transfer, Scientific session of Faculty of Physics, Bucharest, Romania, 17 june 2011

Development of surface acoustic wave sensor platforms utilizing laser based methods, M. Dinescu, Lectie invitata, ALT 2012, 3-6 septembrie 2012,Thun, Elvetia

“MAPLE for polymers coatings: application to controlled drug delivery” , I.A. Paun, A.Moldovan, V.Ion, C. Luculescu, M. Dinescu, Lectie invitata, „Emerging Analytical Tools to Investigate Nitro-Oxidative Stress” -Exploratory Workshop, Iulie 24-26 2012,Bucuresti

Laser processing of soft materials: application to controlled drug delivery, tissue engineering, sensing, I. A. Paun, A. Matei, V. Dinca, A. Palla Papavlu, C. Luculescu, Valentin Ion, A. Moldovan, T. Lippert, M. Dinescu, Lectie invitata, 10th International Conference on Optics ROMOPTO, 3-6 Septembrie 2012

MAPLE and LIFT “soft” laser techniques for organic materials processing, V. Dinca, A. Matei, A. Palla Papavlu and M. Dinescu , la workshop-ul Curent trends and advanced ellipsometry and all x-ray techniques for the characterization of TCO, BIO and other nanostructured materials”, Lectie invitata, 12-14 Septembrie, 2012, Bucuresti, Romania

Laser induced forward transfer (LIFT) for biomedical applications, V. Dinca, A. Palla Papavlu, M. Dinescu, „Emerging Analytical Tools to Investigate Nitro-Oxidative Stress” -Exploratory Workshop, prezentare orala, Iulie 24-26 2012,Bucuresti

Articole:

Characterization of polymer thin films obtained by pulsed laser deposition, A. Palla-Papavlu, V. Dinca, V. Ion, A. Moldovan, B. Mitu, C. Luculescu, M. Dinescu, **Applied Surface Science**, DOI: 10.1016/j.apsusc.2010.11.140, 2010

Matrix-assisted pulsed laser evaporation of chemoselective polymers A. Palla-Papavlu, V. Dinca, M. Dinescu, F. Di Pietrantonio, D. Cannatà, M. Benetti, E. Verona, **Applied Physics A: Materials Science & Processing**, 105, 3, 651-659, DOI: 10.1007/s00339-011-6624-5, 2011

Laser induced forward transfer for materials patterning, A. Palla-Papavlu, V. Dinca T. Lippert, M. Dinescu, **Romanian Reports in Physics**, 63, 1285–1301, 2011

Liposome micropatterning based on laser induced forward transfer, A. Palla-Papavlu, I. Paraico, J. Shaw-Stewart, V. Dinca, T. Savopol, E. Kovacs, T. Lippert, A. Wokaun, M. Dinescu, **Applied Physics A: Materials Science & Processing**, 102: 651–659, DOI 10.1007/s00339-010-6114-1 , 2011

Characterization of polymer thin films obtained by pulsed laser deposition, A. Palla-Papavlu, V. Dinca, V. Ion, A. Moldovan, B. Mitu, C. Luculescu, M. Dinescu, **Applied Surface Science** 257, 5303–5307, DOI: 10.1016/j.apsusc.2010.11.140, 2011

Influence of solution properties in the laser forward transfer of liquids, V. Dinca A. Patrascioiu, J.M. Fernández-Pradas, J.L. Morenza, P. Serra, **Applied Surface Science**, Volume 258, Issue 23, 15 September 2012, Pages 9379–9384

Nerve agent simulant detection by solidly mounted resonators (SMRs) polymer coated using laser induced forward transfer (LIFT) technique, D. Cannatà, M. Benetti, F. Di Pietrantonio, E. Verona, A. Palla-Papavlu, V. Dinca, M. Dinescu, T. Lippert , **Sensors and Actuators B: Chemical**, Volume 173, October 2012, Pages 32-39

Volatile toxic compound detection by surface acoustic wave sensor array coated with chemoselective polymers deposited by laser induced forward transfer: Application to sarin, F. Di Pietrantonio, M. Benetti, D. Cannatà, E. Verona, A. Palla-Papavlu, V. Dinca, M. Dinescu, T. Mattle, T. Lippert, **Sensors and Actuators B: Chemical**, Volume 174, November 2012, Pages 158-167

Doua articole au fost submise pentru publicare in jurnalul cotate ISI Applied Surface Science:

V. Dinca, T. Mattle A. Palla Papavlu, M. Filipescu, M. Dinescu, , A. Wokaun, T. Lippert, Polymer micro and nanopatterning using laser transfer onto soft substrates assisted by a dynamic release layer;

Palla Papavlu, T. Mattle, V. Dinca, , M. Dinescu,, T. Comparison of 193 nm and 308 nm laser liquid printing by shadowgraphy imaging

A fost organizat: **Workshop on Polymer based saw sensor devices for warfare agents detection**, Craiova, Romania, Decembrie 2010.

O parte din rezultatele experimentale raportate in acesta faza de desfasurare a proiectului au fost incluse in **teza de doctorat “Laser processing of soft materials”** prezentata de Doctorand Alexandra Palla-Papavlu, sustinuta public in data de 17 Decembrie 2010.