



Curriculum Vitae

Personal information

First name(s) / Surname(s) **Asst. Prof. Argiris Laskarakis**
Address(es) Chrysostomou Smyrnis 7, 57004, N. Michaniona, Greece
Telephone(s) +30 2310 998266 **Mobile:** +306973438818
E-mail alask@physics.auth.gr
Personal website laskarakis.wordpress.com
Nationality Greek
Date of birth 18 December 1972
Gender Male

Work Experience

- March 2020 - now** **General Manager**, H2020 Project “In-line and Real-time Nano-characterization technologies for the high yield manufacturing of Flexible Organic Electronics” (Horizon 2020 Project RealNano)
- January 2018 - now** **General Manager**, H2020 Project “Multiscale modelling and characterization to optimize the manufacturing processes of Organic Electronics materials and devices” (Horizon 2020 Project Cornet)
- September 2017 - now** **General Manager**, H2020 Project “Smart In-line metrology and control for boosting the yield and quality of high-volume manufacturing of Organic electronics” (Horizon 2020 Project SmartLine)
- May 2020 - now** **Assistant Professor**
 Department of Physics
 Aristotle University of Thessaloniki (AUTH), Greece
- September 2015 - now** **Head of the Organic Electronics Group**
 Nanotechnology Lab LTFN, Aristotle University of Thessaloniki (AUTH), Greece
 Research & Teaching Personnel, Physics Department, Aristotle University of Thessaloniki (AUTH), Greece
- Main activities and responsibilities
- Organization of research activities of the Organic Electronics Group of the Nanotechnology Lab LTFN, Department of Physics, AUTH, Greece
 - Research & Project Management in the fields of:
 - Nanotechnology Methods & Thin Film Science & Technology
 - Flexible Organic Electronics & Photonics
 - Optical Spectroscopy Methods & Characterization for novel nanomaterials
 - Physics
 - Materials Science & Technology
 - Project Management and contribution to the coordination of the FP7 EU Project “*Development of smart machines, tools and processes for the precision synthesis of nanomaterials with tailored properties for Organic Electronics*” (Smartonics)
 - Preparation, writing, submission and implementation of R&D Proposals
 - Responsible of organization of the International Symposium on Flexible Organic Electronics (ISFOE) in Greece during the period 2015-now
 - Teaching classes in Post-Graduate Course level “Nanosciences & Nanotechnologies” at AUTH
 - Teaching laboratory lectures in Undergraduate level in the Physics Department of AUTH
- April 2013 – August 2015** **Senior Scientist**
 Department of Materials Science and Engineering, University of Ioannina, Greece
- R&D activities on EU funded R&D Project “*Development of smart machines, tools and processes for the precision synthesis of nanomaterials with tailored properties for Organic Electronics*” (Smartonics), in the fields of fabrication of nanomaterials and nanoparticles with tailored

January 2012- April 2013

- optoelectronic properties, nanomaterials characterization in terms of optical and electronic properties, laser processes, and specifications for pilot lines for Organic Electronics applications.
- Responsible of organization of the International Symposium on Flexible Organic Electronics (ISFOE) in Greece during the period 2013-2015

Head of Organic Electronics Group

Nanotechnology Lab LTFN, Aristotle University of Thessaloniki

Main activities and responsibilities

- Research activities in the fields of:
 - Nanotechnology Methods & Thin Film Science & Technology
 - Flexible Organic Electronics & Photonics
 - Optical Spectroscopy Methods & Characterization for novel nanomaterials
 - Physics
 - Materials Science & Technology
- Technical and Administrative Management for the R&D Projects:
 - National NSRF Project "*Development of Nanostructured Organic & Inorganic Materials and Thin Films for the Production of Organic Electronic Devices (NanOrganic)*"
 - National NSRF Project "*Development of Integrated Flexible Textile & Electronic Products (Yfatronic)*"
- R&D Proposal preparation, writing, submission and implementation
- Responsible of organization of the International Symposium on Flexible Organic Electronics (ISFOE) in Greece during the period 2012-2013
- Teaching classes in Post-Graduate Course level "Nanosciences & Nanotechnologies"

August 2005- December 2011

Post Doctoral Researcher

Department of Physics, Aristotle University of Thessaloniki, Greece

- Research activities in the fields of:
 - Nanotechnology Methods & Thin Film Science & Technology
 - Flexible Organic Electronics & Photonics
 - Optical Spectroscopy Methods & Characterization for novel nanomaterials
 - Physics
 - Materials Science & Technology
- Technical and Administrative Management & Coordination for EU funded projects:
 - EU FP7 "*Development and integration of processes & technologies for the production of Organic Low-cost & large-Area flexible Electronics*" (OLATronics) project
 - EU FP6 "*Ultra-high barrier films for r2r encapsulation of flexible electronics*" (Flexonics) project
- R&D Proposal preparation, writing, submission and implementation
- Responsible of the Organization of the International Symposium on Flexible Organic Electronics (ISFOE) in Greece during the period 2007-2011
- Teaching classes in Post-Graduate Course level "Nanosciences & Nanotechnologies"

November 1997- July 2005

Researcher

Department of Physics, Aristotle University of Thessaloniki, Greece

- Research activities in the fields of:
 - Nanotechnology Methods & Thin Film Science & Technology
 - Flexible Organic Electronics & Photonics
 - Optical Spectroscopy Methods & Characterization for novel nanomaterials
 - Physics
 - Materials Science & Technology
- Technical and Administrative Management for EU funded projects:
 - EU FP7 "*Development and integration of processes & technologies for the production of Organic Low-cost & large-Area flexible Electronics*" (OLATronics) project
 - EU FP6 "*Ultra-high barrier films for r2r encapsulation of flexible electronics*" (Flexonics) project
 - ISOTECH
 - CERFIL
 - MULTISENS
 - PENED 2001

Education and training

June 1999 – July 2005

PhD Diploma

(including military service at Greek Navy at March 2001-October 2002)

Aristotle University of Thessaloniki, Greece

PhD Thesis Title: "*Spectroscopic Ellipsometry from the IR to the Vis-FUV for the study of inorganic and organic nanostructured materials*"

September 1997-December 2001

Master Degree in Materials Science

Aristotle University of Thessaloniki, Greece

Thin Film Technology, Material Science, Fabrication and Manufacturing methods for advanced nanomaterials, Analytical techniques for materials characterization

MSc Thesis Title: "*Fourier Transform Infrared Spectroscopic Ellipsometry for the study of the optical properties of thin films*"

September 1992-September 1997

Physics Degree

Department of Physics, Aristotle University of Thessaloniki, Greece

Physics

BSc Thesis Title: "*Fourier Transform Infrared Spectroscopic Ellipsometry for the study of the optical properties of thin films*"

Personal skills and competences

Mother tongue(s)

Greek

Other language(s)

English

Self-assessment

European level (*)

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences

- Excellent ability to adapt to multicultural environments, gained through my extensive visits and collaboration with academic, research and industrial experts from EU countries (e.g. France, Germany, Belgium, Austria, Netherlands, Spain, Italy, etc.)
- Intercultural skills: I am experienced at working in a European dimension, due to my long experience in organization and participation of Management and Technical Meetings between European Commission officials and academic and industrial partners for R&D Projects, and due to my experience in being an evaluator and Rapporteur at the Call Cooperation FP7.NMP.2013 as well as in the EU Calls FET-OPEN-2014 (Vice Chair), H2020 WIDESPREAD-1, H2020 WIDESPREAD-2, FET-OPEN-2017 (Vice Chair)
- Enthusiastic team spirit
- Creativity and flexibility

Organisational skills and competences

- Extensive and proven leadership skills acquired by my work as the Head of the Organic Electronics Group in the Physics Department of Aristotle University of Thessaloniki. Within this task I am coordination responsible of a scientific team of experienced scientists (Physicists, Chemists, Chemical Engineers, Medical Doctors, etc.) for the realization of EU and national R&D Projects.
- Project Management and excellent organizational skills for managing several R&D Projects and in prioritising tasks that were acquired by my work in preparing, submitting, coordinating and running EU R&D Projects
- Excellent organization of project workplans, deliverables and milestones, organization of meetings, events, symposia and conferences
- Planning, preparation, writing and submission of EU R&D proposals
- Implementation of technical activities of EU projects
- Judgement and decision making: Experience as focal point for implementation, organization and problem solution
- Extensive experience in R&D Project Management in terms of technical activities, dissemination and exploitation activities
- Networking with national authorities, Institutions and Associations and Representatives

Scientific & Technical skills and competences

- Organization of Consortium and Technical Meetings between European partners of EU funded R&D projects
- Flexible Organic Electronics & Photonics
 - Fabrication of novel nanomaterials: organic semiconductors (polymer, small molecule) and polymer transparent electrodes
 - Fabrication of Organic Electronic & Photonic devices on rigid and polymer substrates (Organic Photovoltaics, Organic Light Emitting Diodes, Organic Thin Film Transistors, etc.) by lab (spin coating) and large scale methods (e.g. printing, roll-to-roll, sheet-to-sheet, organic vapour phase deposition)
- Optical Spectroscopy Methods & Characterization for novel nanomaterials
 - Spectroscopic Ellipsometry (in-situ, in-line, real-time, ex-situ) from the Infrared to Visible and far UltraViolet region
 - Mueller Matrix Spectroscopic Ellipsometry for optically anisotropic nanomaterials
 - Modelling methods of the optical properties of nanomaterials and thin films
 - Raman Spectroscopy for investigation of bonding structure of nanomaterials and thin films
- Nanotechnology Methods & Thin Film Science & Technology
 - Fabrication of novel nanomaterials, such as polymer and small molecule organic semiconductors, transparent electrodes, inorganic, hybrid polymers, polymer nanomaterials and blends, plasmonic nanoparticles, graphene and other 2D nanomaterials, carbon-based materials, barrier nanomaterials, oxides, nitrides, and nanomaterials for biomedical applications
 - Characterization of optical, vibrational and nanomechanical properties and bonding structure of advanced thin films and nanomaterials
 - Vacuum deposition of inorganic and organic thin films by magnetron sputtering, electron beam evaporation, thermal evaporation, organic vapour phase deposition
 - Laser processing (patterning, scribing, etc.) of nanomaterials
 - Surface functionalization of thin films by ion beams and plasma methods
- Drafting, reporting and publishing skills

Computer skills and competences

- Excellent command of Microsoft Office™ tools (Word™, Excel™, Powerpoint™, Access™);
- Excellent command of graphic design applications (Adobe Photoshop™, Adobe Illustrator™)
- Excellent command of website developing tools (Adobe Dreamweaver™)
- Website design, programming, and maintenance
- Programming languages (Fortran™, Basic™)

Artistic skills and competences

Web design, Website development and maintenance, Painting, Music and Electrical/Electronic crafting. These skills were acquired through voluntary and leisure activities.

Other skills and competences

- Expert for Evaluation and Review of EU R&D proposals & Projects
- Ethics Expert for evaluation of EU R&D proposals
- Experience in writing and submission and implementation of European Commission R&D Proposals (including coordination, reporting, publishing)
- Organization of International Scientific Conferences & Events
- Teaching experience in Post-Graduate Course “Nanosciences & Nanotechnologies”, in the subjects: Science of Thin Films and Surfaces, Thin Film and Surface Treatment Technology, Micro- and Nano-process technologies, Optical Techniques and Crystallography (2006-now)
- Public relations & event management

Driving licence

Category B vehicle

Scientific Activity & Indexes

- Publications in International Scientific Journals: 78
- Chapters in Scientific Books: 6
- Hirsch Index: 20, Total Citations: 1322, (Source: Scopus, Aug 2020)
- Participations in EU funded R&D Projects: 16
- Participation in National funded R&D Projects: 4
- Presentations in International Scientific Conferences: 141
- Invited Presentations in International Scientific Conferences & Events: 30
- Presentations in National Scientific Conferences: 25
- Participation & Presentations in Workshops and Exhibitions: 35

Additional information

- ECAS Expert ID: EX2006C141027
- Personal Website: <http://laskarakis.wordpress.com>
- ORCID ID: <https://orcid.org/0000-0002-3157-6112>

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Annex 1: Publications in peer reviewed International Scientific Journals

1. **Magnetron sputtered carbon nitride: composition and chemical bonding of as-grown and post-annealed films studied with real-time and in situ diagnostic techniques**
M. Gioti, S. Logothetidis, P. Patsalas, A. Laskarakis, Y. Panayiotatos and V. Kechagias
Surface and Coatings Technology, Volume 125, Issues 1-3, (2000), 289-294
2. **A study on the bonding structure and mechanical properties of magnetron sputtered CN_x thin films**
A. Laskarakis, S. Logothetidis, C. Charitidis, M. Gioti, Y. Panayiotatos, M. Handrea & W. Kautek
Diamond and Related Materials, Volume 10, Issues 3-7, March-July 2001, 1179-1184
3. **Bonding structure of carbon nitride films by infrared ellipsometry**
A. Laskarakis, S. Logothetidis, and M. Gioti
Phys. Rev. B 64, 125419 (2001)
4. **In situ and real-time ellipsometry diagnostic techniques towards the monitoring of the bonding structure and growth kinetics: silicon oxide coatings**
S. Logothetidis, A. Laskarakis, A. Gika and P. Patsalas
Surface and Coatings Technology, Volumes 151-152, 1 March 2002, 204-208
5. **Spectroscopic ellipsometry studies on BN films from IR to vacuum UV energy region**
Y. Panayiotatos, S. Logothetidis, A. Laskarakis, A. Zervopoulou and M. Gioti
Diamond and Related Materials, Volume 11, Issues 3-6, March-June 2002, 1281-1285
6. **Variation of nitrogen incorporation and bonding configuration of carbon nitride films studied by X-ray photoelectron spectroscopy (XPS) and Fourier transform infrared (FT-IR) spectroscopic ellipsometry**
S. Kennou, S. Logothetidis, L. Sygellou, A. Laskarakis, D. Sotiropoulou and Y. Panayiotatos
Diamond and Related Materials, Volume 11, Issues 3-6, March-June 2002, 1183-1187
7. **A Spectroscopic Ellipsometry study of PET membranes from IR to Vis-fUV**
A. Laskarakis*, M. Gioti, E. Pavlopoulou, N. Poulakis, S. Logothetidis
Macromolecular Symposia 2004, 205, 95-104
*Corresponding Author
8. **FTIR and VIS-FUV real time spectroscopic ellipsometry studies of polymer surface modifications during ion beam bombardment**
A. Laskarakis, C. Gravalidis, S. Logothetidis
Nuclear Instruments and Methods B, 216 131-136 (2004)
9. **Real-time monitoring of silicon oxide deposition processes**
C. Gravalidis, M. Gioti, A. Laskarakis, S. Logothetidis
Surface and Coatings Technology 180 –181 (2004) 655–658
10. **Comparison of the nanomechanical and nanoscratch performance of antiscratch layers on organic lenses**
C. Charitidis, M. Gioti, S. Logothetidis, S. Kassavetis, A. Laskarakis, I. Varsano
Surface and Coatings Technology 180 –181 (2004) 357–361
11. **Nanoindentation studies of multilayer amorphous carbon films**
S. Logothetidis, S. Kassavetis, C. Charitidis, Y. Panayiotatos, A. Laskarakis
Carbon 42 (2004) 1133–1136
12. **IR – FUV Ellipsometry studies on the optical, electronic and vibrational properties of polymeric membranes**
M. Gioti, A. Laskarakis, S. Logothetidis
Thin Solid Films 455 –456 (2004) 283–287
13. **Mueller Matrix Spectroscopic Ellipsometry: Formulation and Application**
A. Laskarakis, S. Logothetidis, E. Pavlopoulou, M. Gioti
Thin Solid Films 455 –456 (2004) 43–49
14. **Optical and nanomechanical study of anti-scratch layers on polycarbonate lenses**
C. Charitidis, A. Laskarakis, S. Kassavetis, C. Gravalidis and S. Logothetidis
Superlattices and Microstructures, Volume 36, Issues 1-3, July-September 2004, Pages 171-179
15. **On the optical anisotropy of Poly(Ethylene Terephthalate) and Poly(Ethylene Naphthalate) polymeric films by Spectroscopic Ellipsometry from visible-far ultraviolet to infrared spectral regions**
A. Laskarakis, S. Logothetidis
J. Appl. Phys., 99, 066101, (2006)

- 16. Optical investigations of the effect of temperature and plasma conditions on the growth of sp³-bonded BN thin films**
A. Laskarakis, S. Logothetidis, S. Kassavetis
Surface & Coatings Technology 200 (2006) 6449–6453
- 17. Characterization of Si nanocrystals into SiO₂ matrix**
C. Gravalidis, S. Logothetidis, N. Hatziaras, A. Laskarakis, N. Frangis, I. Tsiaoussis
Applied Surface Science 253 (1 SPEC. ISS.), pp. 385-388 (2006)
- 18. Investigation of the optical anisotropy of PET and PEN films by Vis-FUV to IR Spectroscopic Ellipsometry**
A. Laskarakis, S. Logothetidis
Applied Surface Science 253 (1 SPEC. ISS.), pp. 52-56 (2006)
- 19. Haemocompatibility of amorphous carbon thin films, optical properties and adsorption mechanisms of blood plasma proteins**
S. Lousinian, S. Logothetidis, A. Laskarakis, M. Gioti,
Biomolecular Engineering 24 (1 SPEC. ISS.), pp. 107-112 (2007)
- 20. Study of the electronic and vibrational properties of poly(ethylene terephthalate) and poly(ethylene naphthalate) films**
A. Laskarakis, S. Logothetidis
Journal of Applied Physics 101 (5), (2007)
- 21. Surface modification of Poly(Ethylene Terephthalate) polymeric films for flexible electronics applications**
A. Laskarakis*, S. Logothetidis, S. Kassavetis, E. Papaioannou
Thin Solid Films 516 (7), pp. 1443-1448, (2008)
*Corresponding Author
- 22. Optical and structural properties of ZnO for transparent electronics**
S. Logothetidis, A. Laskarakis*, S. Kassavetis, S. Lousinian, C. Gravalidis, G. Kiriakidis
Thin Solid Films, 516 (7), pp. 1345-1349 (2008)
*Corresponding Author
- 23. In-situ and real-time investigation of ZnO thin films growth onto flexible polymeric substrates**
C. Koidis, S. Logothetidis, D. Georgiou, N. Goktsis and A. Laskarakis
Phys. Stat. Sol. (c), 1366-1369 (2008) / DOI 10.1002/pssc.200777872
- 24. In-Situ & Real-Time Monitoring of High Barrier Layers Growth onto Polymeric Substrates**
D. Georgiou, S. Logothetidis, C. Koidis, and A. Laskarakis
Phys. Stat. Sol. (c), 1300-1303 (2008) / DOI 10.1002/pssc.200777827
- 25. Investigation of the Optical Properties of Organic-Inorganic Hybrid Polymers by IR to Vis-fUV Spectroscopic Ellipsometry**
S. Logothetidis, A. Laskarakis, D. Georgiou, S. Amberg-Schwab, and U. Weber
Phys. Stat. Sol. (c), 1265-1269 (2008) / DOI 10.1002/pssc.200777828
- 26. Growth, optical and nanostructural properties of magnetron sputtered ZnO thin films deposited on flexible substrates**
S. Logothetidis, C. Koidis, D. Georgiou, N. Goktsis, S. Lousinian, A. Laskarakis, I. Tsiaoussis and N. Frangis
Phys. stat. sol. (a), 1188-1922 (2008)/DOI 10.1002/pssa.200778917
- 27. Growth mechanisms of silicon oxide nano-layers grown onto polymeric substrates for flexible electronics applications**
D. Georgiou, A. Laskarakis, C. Koidis, N. Goktsis, S. Logothetidis
Phys. stat. sol. (c) 5, No. 10, 3387– 3391 (2008) / DOI 10.1002/pssc.200778918
- 28. AFM study of the thrombogenicity of carbon-based coatings for cardiovascular applications**
S V. Karagkiozaki, S. Logothetidis, A. Laskarakis, G. Giannoglou, S. Lousinian
Materials Science and Engineering B: Solid-State Materials for Advanced Technology 152 (1-3), pp. 16-21 (2008).
- 29. Thin film and interface properties during ZnO deposition onto high-barrier hybrid/PET flexible substrates**
C. Koidis, S. Logothetidis, A. Laskarakis, I. Tsiaoussis and N. Frangis
Micron 40 (1), pp. 130-134 (2009).
- 30. Fine Tuning of PEDOT electronic properties using solvents**
C. Gravalidis, A. Laskarakis, S. Logothetidis
Eur. Phys. J. Appl. Phys. 46, 12505 (2009)
- 31. Towards the optimization of materials and processes for flexible organic electronics devices**
S. Logothetidis, A. Laskarakis
Eur. Phys. J. Appl. Phys. 46, 12502 (2009)
- 32. Study of the optical and barrier response of hybrid materials with embedded inorganic inclusions for encapsulation of flexible organic electronics**

- A. Laskarakis*, D. Georgiou, S. Logothetidis, S. Amberg-Scwhab, U. Weber
Materials Chemistry and Physics 115 (2009) 269–274
*Corresponding Author
- 33. Optical properties of ultra high barrier materials**
D. Georgiou, A. Laskarakis*, S. Logothetidis
Applied Surface Science 255 (2009) 8023–8029
*Corresponding Author
- 34. Deposition and characterization of PEDOT/ZnO layers onto PET substrates**
M. Garganourakis, S. Logothetidis, C. Koidis, D. Georgiou, A. Laskarakis*
Thin Solid Films 517 (2009) 6409–6413
*Corresponding Author
- 35. On the influence of silicon oxide nanoparticles on the optical properties of hybrid (inorganic-organic) barrier materials**
A. Laskarakis*, S. Logothetidis, D. Georgiou, S. Amberg-Schwab, U. Weber
Thin Solid Films 517 (2009) 6275–6279
*Corresponding Author
- 36. Organic against inorganic electrodes grown onto polymer substrates for flexible organic electronics applications**
S. Logothetidis, A. Laskarakis*
Thin Solid Films 518 (2009) 1245–1249
*Corresponding Author
- 37. Study of the growth of inorganic and organic electrodes onto PolyEthylene Terephthalate substrates**
M. Garganourakis, S. Logothetidis, Ch. Pitsalidis, N. Hastas, K. Breza, A. Laskarakis*, N. Frangis
Thin Solid Films 518 (2009) 1124–1128
*Corresponding Author
- 38. Real time optical modeling of inorganic nano-layer growth onto flexible polymeric and hybrid substrates**
A. Laskarakis*, D. Georgiou, S. Logothetidis
Materials Science & Engineering B 166 (2010) 7–13
*Corresponding Author
- 39. Optical investigation of the surface modification of Polycarbonate by N₂ plasma for optical applications**
A. Laskarakis*, S. Kassavetis, C. Gravalidis, S. Logothetidis
Nuclear Instruments and Methods in Physics Research B 268 (2010) 460–465
*Corresponding Author
- 40. Effect of Thickness in the Optical Properties of Organic Thin Films Deposited via Organic Vapor Phase Deposition**
A. Laskarakis*, D. Georgiou, S. Logothetidis
Phys. Status Solidi A 207, No. 7, 1765–1771 (2010)
*Corresponding Author
- 41. Growth mechanisms and thickness effect on the properties of Al-doped ZnO thin films grown on polymeric substrates**
C. Koidis, S. Logothetidis, S. Kassavetis, A. Laskarakis, N. A. Hastas, O. Valassiades
Phys. Status Solidi A, 1–5 (2010)
- 42. Ultra high barrier materials for encapsulation of flexible organic electronics**
S. Logothetidis, A. Laskarakis, D. Georgiou, S. Amberg-Schwab, U. Weber, K. Noller, M. Schmidt, E. Kucukpinar-Niarchos and W. Lohwasser
Eur. Phys. J. Appl. Phys. 51, 33203 (2010)
- 43. Effect of ion bombardment and hydrogen pressure during deposition on the optical properties of hydrogenated amorphous carbon thin films**
S. Kassavetis, A. Laskarakis*, S. Logothetidis
Diamond & Related Materials 20 (2011) 109–114
*Corresponding Author
- 44. Evolution of vertical phase separation in P3HT:PCBM thin films induced by thermal annealing**
P.G. Karagiannidis, D. Georgiou, C. Pitsalidis, A. Laskarakis, S. Logothetidis
Materials Chemistry and Physics 129 (2011) 1207–1213
- 45. Substrate treatment and drying conditions effect on the properties of roll-to-roll gravure printed PEDOT:PSS thin films**
C. Koidis, S. Logothetidis, C. Kapnopoulos, P. Karagiannidis, A. Laskarakis, N. Hastas
Materials Science and Engineering B 176 (2011) 1556–1561
- 46. Effect of buffer layer properties and annealing process on bulk heterojunction morphology and organic solar cell performance**

- P.G. Karagiannidis, N. Kalfagiannis, D. Georgiou, A. Laskarakis, N. A. Hastas, C. Pitsalidis and S. Logothetidis
J. Mater. Chem., 2012, 22, 14624
- 47. In-line Spectroscopic Ellipsometry for the monitoring of the optical properties and quality of roll-to-roll printed nanolayers for organic photovoltaics**
S. Logothetidis, D. Georgiou, A. Laskarakis, C. Koidis, N. Kalfagiannis
Solar Energy Materials & Solar Cells 112 (2013) 144–156
- 48. Effect of process parameters on the morphology and nanostructure of roll-to-roll printed P3HT:PCBM thin films for organic photovoltaics**
C. Koidis, S. Logothetidis, S. Kassavetis, C. Kapnopoulos, P. G. Karagiannidis, D. Georgiou, and A. Laskarakis
Solar Energy Materials and Solar Cells 112 (2013) 36-46
- 49. Key factors for the efficiency improvement of roll-to-roll printed organic photovoltaics**
C. Koidis, S. Logothetidis, A. Ioakeimidis, A. Laskarakis, C. Kapnopoulos
Organic Electronics 14 (2013) 1744–1748
- 50. Optical investigations of the effect of solvent and thermal annealing on the optoelectronic properties of Poly(3,4-ethylenedioxythiophene): poly(styrenesulfonate) films**
A. Laskarakis*, P. Karagiannidis, D. Georgiou, D.M. Nikolaidou, S. Logothetidis
Thin Solid Films 541 (2013) 102-106
*Corresponding Author
- 51. Non-destructive optical characterization of phase separation in bulk heterojunction organic photovoltaic cells**
A. Laskarakis, P. Karagiannidis, D. Georgiou, D.M. Nikolaidou, S. Logothetidis
Solar Energy Materials and Solar Cells, Volume: 125 (2014) 190-197
- 52. Laser patterning of smart nanomaterials for reel-to-reel production of organic photovoltaic (OPV) devices**
C. Moorhouse, D. Karnakis, C. Kapnopoulos, A. Laskarakis, E. Mekeridis, S. Logothetidis
Journal of Laser Micro Nanoengineering, Volume 10, Issue 2, 2015, 195-201
- 53. Fully gravure printed organic photovoltaic modules: A straightforward process with a high potential for large scale production**
C. Kapnopoulos, E.D. Mekeridis, L. Tzounis, C. Polyzoidis, A. Zachariadis, S. Tsimikli, C. Gravalidis, A. Laskarakis, N. Vouroutzis, S. Logothetidis
Solar Energy Materials and Solar Cells, Vol. 144, January 2016, Pages 724-731
- 54. Improvement of inverted OPV performance by enhancement of ZnO layer properties as an electron transfer layer**
C.A. Polyzoidis, C. Kapnopoulos, E. D. Mekeridis, L. Tzounis, S. Tsimikli, C. Gravalidis, A. Laskarakis, S. Logothetidis
Materials Today: Proceedings 3 (2016) 758 – 771
- 55. Gravure printed organic photovoltaic modules onto flexible substrates consisting of a P3HT:PCBM photoactive blend**
C. Kapnopoulos, E. D. Mekeridis, L. Tzounis, C. Polyzoidis, S. Tsimikli, C. Gravalidis, A. Zachariadis, A. Laskarakis, S. Logothetidis
Materials Today: Proceedings 3 (2016) 746 – 757
- 56. Organic Photovoltaic Cells based on Graphene Interfacial Anode Electrodes**
E. M. Pechlivani, D. Papas, A. Zachariadis, A. Laskarakis, S. Logothetidis
Materials Today: Proceedings 3 (2016) 788 – 795
- 57. High mobility transistors based on electrospray-printed small-molecule/polymer semiconducting blends**
C. Pitsalidis, A.-M. Pappa, S. Hunter, A. Laskarakis, T. Kaimakamis, M.M. Payne, J.E. Anthony, T.D. Anthopoulos, S. Logothetidis
J. Mater. Chem. C, 2016, 4, 3499-3507
- 58. Universal Compact Model for Organic Solar Cell**
J. W. Jin, S. Jung, Y. Bonnassieux, G. Horowitz, A. Stamateri, C. Kapnopoulos, A. Laskarakis, S. Logothetidis
IEEE Transactions on Electron Devices, DOI 10.1109/TED.2016.2598793 (2016)
- 59. A comprehensive study of the optical properties of emitting polymers for efficient flexible OLED devices**
M. Gioti, C. I. Chaidou, D. Kokkinos, A. Laskarakis, A.K. Andreopoulou, J.K. Kallitsis, S. Logothetidis
Phys. Status Solidi A, 1–7 (2016)
- 60. Air-brushed organic transistors based on small molecule/insulating polymer blends with mobilities exceeding 1 cm²/Vs**
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- 65. Perovskite solar cells from small scale spin coating process towards roll-to-roll (R2R) printing: Optical & Morphological studies**
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- 71. Plasmonic Organic Photovoltaics: Unraveling Plasmonic Enhancement for Realistic Cell Geometries on the morphology of polymer donor:acceptor blends by optical Metrology**
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M. Gioti, D. Kokkinos, K. Stavrou, K. Simitzi, A. Andreopoulou, A. Laskarakis, J. Kallitsis, S. Logothetidis
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78. Design, characterisation and drug release study of polymeric, drug-eluting single layer thin films on the surface of intraocular lenses

A. Karamitsos, L. Lamprogiannis, V. Karagkiozaki, A. Laskarakis, L. Papadopoulou, D. Fatouros, N. Ziakas, S. Logothetidis, I. Tsinoopoulos
IET Nanobiotechnology, Vol. 14, Iss.: 6, 8 (2020), 501 - 507

Annex 2: Chapters in peer-reviewed Scientific Books**1. "Implementation of Optical Characterization for Flexible Organic Electronics Applications"**

Book: Nanostructured Materials and Their Applications

NanoScience and Technology 2012, pp 131-154

Editors: Stergios Logothetidis

ISBN: 978-3-642-22226-9 (Print) 978-3-642-22227-6 (Online)

Date of publication : 06/2012

Name of publisher : Springer-Verlag Berlin Heidelberg

Publication's web address : <http://link.springer.com/book/10.1007/978-3-642-22227-6/page/1>

2. "Spectroscopic Ellipsometry for Functional Nano-Layers of Flexible Organic Electronic Devices"

Book: Ellipsometry at the Nanoscale, 2013, pp 529-556

Editors: Maria Losurdo, Kurt Hingerl,

ISBN: 978-3-642-33955-4 (Print) 978-3-642-33956-1 (Online)

Date of publication : 06/2013

Name of publisher : Springer-Verlag Berlin Heidelberg

Publication's web address : <http://link.springer.com/book/10.1007/978-3-642-33956-1/page/1>

3. "In-line Quality Control of Organic Thin Film Fabrication on Rigid and Flexible Substrates"

Book: Ellipsometry of Functional Organic Surfaces and Films, Springer Series in Surface Sciences (2014), 52, pp. 265-286.

Editors: Karsten Hinrichs, Klaus-Jochen Eichhorn

ISBN: 978-3-642-40127-5 (Print) 978-3-642-40128-2 (Online)

Date of publication: 2014

Name of publisher: Springer Series in Surface Sciences

4. "In-line monitoring and quality control of flexible organic electronic materials"

Book: Handbook of Flexible Organic Electronics: Materials, Manufacturing and Applications

Editor: Stergios Logothetidis

ISBN: 978-1-78242-035-4

Date of publication: 2015

Name of publisher: Elsevier, **Woodhead Publishing Series in Electronic and Optical Materials**

5. "In-line Quality Control of Organic Thin Film Fabrication on Rigid and Flexible Substrates"

Book: Ellipsometry of Functional Organic Surfaces and Films, Springer Series in Surface Sciences (2014), 52, pp. 437-458

Editors: Karsten Hinrichs, Klaus-Jochen Eichhorn

ISBN: 978-3-319-75894-7 (Print) 978-3-319-75895-4 (Online)

Date of publication: 2018

https://doi.org/10.1007/978-3-319-75895-4_19

Name of publisher: Springer Series in Surface Sciences

6. Intelligent Roll-to-Roll Manufacturing of Organic Electronic Devices

Book: Solution-Processable Components for Organic Electronic Devices, 2019 Wiley-VCH Verlag GmbH & Co. KGaA., Editors: Luszczynska, Matyjaszewski, Ulanski, Print ISBN:9783527344420 |Online ISBN:9783527813872 |DOI:10.1002/9783527813872 https://doi.org/10.1007/978-3-319-75895-4_19, <https://doi.org/10.1002/9783527813872.ch12>

Annex 3: Presentations in International Scientific Conferences

1. **Mueller Matrix Spectroscopic Ellipsometry: Formulation and Application**
3rd International Conference on Spectroscopic Ellipsometry (ICSE-3), Vienna, Austria, 2003
Oral Presentation
2. **IR – FUV Ellipsometry studies on the optical, electronic and vibrational properties of polymeric membranes**
3rd International Conference on Spectroscopic Ellipsometry (ICSE-3), Vienna, Austria, 2003
Poster Presentation
3. **FTIR and Vis-FUV real time spectroscopic ellipsometry studies of polymer surface modifications during ion beam bombardment**
E-MRS 2003, 28 May – 2 June 2003, Strasbourg, France
Poster Presentation
4. **Optical and electronic properties of polymeric materials**
XVI Symposium on Condensed Matter Physics (SFKM 04), 20-23/09/2004, Sokobanja, Serbia
Oral Presentation
5. **Investigation of the optical anisotropy of PET and PEN films by Vis-FUV to IR Spectroscopic Ellipsometry**
E-MRS 2005 Spring Meeting, 31 May – 3 June 2005, Strasbourg, France
Oral Presentation
6. **Optical investigations of the effect of temperature & plasma conditions on the growth of sp³-bonded BN thin films**
E-MRS 2005 Spring Meeting, 31 May – 3 June 2005, Strasbourg, France
Oral Presentation
7. **Characterization of Si nanocrystals into SiO₂ matrix**
E-MRS 2005 Spring Meeting, 31 May – 3 June 2005, Strasbourg, France
Poster Presentation
8. **Optical properties of PET and PEN polymeric films from the IR to Vis-farUV spectral region**
4th Workshop on Ellipsometry, 20-22 February 2006, Berlin, Germany
Poster Presentation
9. **Surface modification of Poly(Ethylene Terephthalate) polymeric films for flexible electronics applications**
E-MRS 2006 Spring Meeting, 28 May – 2 June 2006, Nice, France
Oral Presentation
10. **Optical and structural properties of ZnO for transparent electronics**
E-MRS 2006 Spring Meeting, 28 May – 2 June 2006, Nice, France
Oral Presentation
11. **Flexible Electronic Devices: Basic Principles, Processes and Applications**
3rd International Workshop on Nanosciences & Nanotechnologies - NN06, 10-12 July 2006, Thessaloniki, Greece
Oral Presentation
12. **Deposition of High Barrier Thin Films On Polymeric And Hybrid Materials**
3rd International Workshop on Nanosciences & Nanotechnologies - NN06, 10-12 July 2006, Thessaloniki, Greece
Poster Presentation
13. **Growth, optical and nanostructural properties of magnetron sputtered ZnO thin films deposited on polymeric substrates**
E-MRS 2007 Spring Meeting, 28 May – 2 June 2007, Strasbourg, France
Oral Presentation
14. **Growth mechanisms of silicon oxide nano-layers grown onto polymeric substrates for flexible electronics applications**
E-MRS 2007 Spring Meeting, 28 May – 2 June 2007, Strasbourg, France
Poster Presentation
15. **Investigation of the Optical Properties of Organic-Inorganic Hybrid Polymers by IR to Vis-fUV Spectroscopic Ellipsometry**
4th International Conference on Spectroscopic Ellipsometry (ICSE-4), 11-15 June 2007, Stockholm, Sweden
Oral Presentation
16. **In-Situ & Real-Time Monitoring of High Barrier Layers Growth onto Polymeric Substrates**
4th International Conference on Spectroscopic Ellipsometry (ICSE-4), 11-15 June 2007, Stockholm, Sweden
Poster Presentation

17. **In-situ and real-time investigation of ZnO thin films growth onto flexible polymeric substrates**
4th International Conference on Spectroscopic Ellipsometry (ICSE-4), 11-15 June 2007, Stockholm, Sweden
Poster Presentation
18. **Real-time IR Ellipsometry studies of inorganic thin films growth onto flexible polymeric substrates**
4th International Workshop on Nanosciences & Nanotechnologies - NN07, 14-20 July 2007, Thessaloniki, Greece
Oral Presentation
19. **Investigation of the Optical Properties of Organic-Inorganic Hybrid Polymers by IR to Vis-fUV Spectroscopic Ellipsometry**
4th International Workshop on Nanosciences & Nanotechnologies - NN07, 14-20 July 2007, Thessaloniki, Greece
Oral Presentation
20. **Optical and Surface Properties of Organic-Inorganic Hybrid Polymers onto Flexible Substrates**
4th International Workshop on Nanosciences & Nanotechnologies - NN07, 14-20 July 2007, Thessaloniki, Greece
Poster Presentation
21. **Deposition and characterization of PEDOT /ZnO layers onto PET substrates**
E-MRS 2008 Spring Meeting, 28 May – 2 June 2008, Strasbourg, France
Poster Presentation
22. **Optical Characterization of Optically Anisotropic Flexible Polymeric Substrates**
1st International Symposium on Flexible Organic Electronics (IS-FOE), 9-11 July 2008, Halkidiki, Greece
Poster Presentation
23. **Effects of annealing and ethylene glycol solvent on electrical, optical and morphological properties of PEDOT:PSS thin films**
1st International Symposium on Flexible Organic Electronics (IS-FOE), 9-11 July 2008, Halkidiki, Greece
Poster Presentation
24. **Real time optical monitoring of inorganic layer growth onto flexible polymeric substrates**
1st International Symposium on Flexible Organic Electronics (IS-FOE), 9-11 July 2008, Halkidiki, Greece
Oral Presentation
25. **Optical Characterization of Optically Anisotropic Flexible Polymeric Substrates**
5th International Conference on Nanosciences & Nanotechnologies - NN08, 14-16 July 2008, Thessaloniki, Greece
Poster Presentation
26. **Dependence of the SiO₂ nanoparticles on the optical and surface properties of hybrid barrier materials**
5th International Conference on Nanosciences & Nanotechnologies - NN08, 14-16 July 2008, Thessaloniki, Greece
Poster Presentation
27. **Growth & characterization of ZnO/PEDOT:PSS thin films operating as a p-n junction for flexible electronic devices**
5th International Conference on Nanosciences & Nanotechnologies - NN08, 14-16 July 2008, Thessaloniki, Greece
Poster Presentation
28. **Ultra high barrier materials for encapsulation of flexible organic electronics**
2nd International Symposium on Flexible Organic Electronics (IS-FOE09), 8-10 July 2009, Halkidiki, Greece
Oral Presentation
29. **Effect of Solvent and Deposition Conditions in the Optical Properties of P3HT Thin Films**
2nd International Symposium on Flexible Organic Electronics (IS-FOE09), 8-10 July 2009, Halkidiki, Greece
Poster Presentation
30. **Growth mechanisms, optoelectronic and nanomechanical properties of Magnetron sputtered and Electron Beam evaporated Al-doped ZnO thin films**
7th International Conference on Nanosciences & Nanotechnologies – NN10, 11-17 July 2010, Ouranopolis, Greece
Poster Presentation
31. **Effect of thermal annealing on the blend morphology of bulk heterojunction organic solar cells**
6th Workshop Ellipsometry, February 21-24, 2011 TU Berlin, Berlin, Germany
Oral Presentation
32. **Robust determination of the optical properties of high barrier materials by Spectroscopic Ellipsometry**
4th International Symposium on Flexible Organic Electronics – ISFOE11, 10-13 July 2011, Thessaloniki, Greece
Oral Presentation
33. **Real time optical investigations of the effect of post-deposition annealing on the optical and electronic properties of PEDOT:PSS films**

- E-MRS 2012 Spring Meeting, 14-18 May 2012, Strasbourg, France
Oral Presentation
34. **In-Line Spectroscopic Ellipsometry as a tool for monitoring the quality of r2r gravure printed materials**
5th International Symposium on Flexible Organic Electronics – ISFOE12, Thessaloniki, Greece, 2-5/07/2012
Oral Presentation
35. **Reinforce Organic Electronics Research Potential in Kentriki Makedonia (ROleMak) FP7-REGPOT-2011-1**
5th International Symposium on Flexible Organic Electronics – ISFOE12, Thessaloniki, Greece, 2-5/07/2012
Oral Presentation
36. **Robust determination of blend composition of roll-to-roll printed nanolayers for the improvement of organic photovoltaics efficiency**
S. Logothetidis, **A. Laskarakis**, D. Georgiou, C. Koidis, Ch. Kapnopoulos, M. Stchakowski, J.-P. Gaston, D. Cattelan
EMRS 2013 Spring Meeting, 27-31 May 2013, Strasbourg, France
Poster Presentation
37. **Study of interface composition in polymer:fullerene solar cells**
P.G.Karagiannidis, **A.Laskarakis**, D.Georgiou, M.Seitanidou and S.Logothetidis
EMRS 2013 Spring Meeting, 27-31 May 2013, Strasbourg, France
Poster Presentation
38. **Study of interface composition in polymer:fullerene solar cells**
A. Laskarakis, S. Logothetidis, P.G. Karagiannidis, D. Georgiou, C. Koidis, M. Seitanidou
6th International Symposium on Flexible Organic Electronics (ISFOE13), 8-11 July 2013, Thessaloniki, Greece
Oral Presentation
39. **Optical properties and quality of roll-to-roll printed nanolayers for organic photovoltaics by in-line Spectroscopic Ellipsometry**
A. Laskarakis, D. Georgiou, Ch. Kapnopoulos, C. Koidis, G. Antonopoulos, S. Logothetidis
8th Workshop Ellipsometry 2014, March 10 - 12, 2014, Dresden, Germany
Oral Presentation
40. **Laser Patterning of smart Nanomaterials for Reel-to-Reel Production of Organic Photovoltaic (OPV) Devices**
C. Moorhouse, D. Karnakis, C. Kapnopoulos, A. Laskarakis, S. Logothetidis, G. Antonopoulos, C. Koidis
ISFOE14, 7-10/07/2014, Thessaloniki, Greece
Oral Presentation
41. **Integration and Investigation of Interconnected large scale OPV modules**
M. Seitanidou, M. Chatzidis, D. Georgiou, A. Laskarakis, I. Sismanidis, S. Logothetidis
ISFOE14, 7-10/07/2014, Thessaloniki, Greece
Oral Presentation
42. **Process technology and in-line quality control for flexible organic photovoltaics**
C. Koidis, G. Antonopoulos, D. Georgiou, C. Kapnopoulos, E. Mekeridis, A. Laskarakis, S. Logothetidis
ISFOE14, 7-10/07/2014, Thessaloniki, Greece
Oral Presentation
43. **Investigation of the interfacial composition in ternary systems for bulk heterojunction organic photovoltaics**
D. Puzzovio, M. Seitanidou, D. Georgiou, A. Paspali, A. Laskarakis, A. K. Andreopoulou, S. Kakogianni, J.K. Kallitsis, S. Logothetidis
ISFOE14, 7-10/07/2014, Thessaloniki, Greece
Poster Presentation
44. **Use of S-curves for the prediction of the OPVs and OLEDs for lighting efficiency, which are produced by R2R and Vacuum techniques**
N. Michos, S. Logothetidis, C. Gravalidis, A. Laskarakis, E. Iliopoulou
ISFOE14, 7-10/07/2014, Thessaloniki, Greece
Poster Presentation
45. **Laser Scribing Process Technology for Organic Photovoltaic Nanolayers**
I. Laspas, C. Kapnopoulos, G. Antonopoulos, C. Koidis, V. Stankevic, S. Kassavetis, E. Pavlidou, A. Laskarakis, S. Logothetidis
ISFOE14, 7-10/07/2014, Thessaloniki, Greece
Poster Presentation
46. **A comparative study of Graphene monolayer on different substrates**
A. Zachariadis, D. Papas, M. Kastrinaki, M. Seitanidou, A. Zurutuza, C. Gravalidis, A. Laskarakis, S. Logothetidis

- ISFOE14, 7-10/07/2014, Thessaloniki, Greece
Poster Presentation
47. **Laser Printed Plasmonic Metal Nanoparticles on Different Functional Substrates**
Michail J. Beliatas, Dimitar Kutsarov, S. Kassavetis, E. Lidorikis, P. Patsalas, A. Laskarakis, S. Logothetidis, S. Ravi. P. Silva
NN14, 8-11/07/2014, Thessaloniki, Greece
Oral Presentation
48. **Investigation of ternary systems for bulk heterojunction organic photovoltaics**
D. Puzzovio, M. Seitanidou, D. Georgiou, A. Paspali, A. Laskarakis, A. Andreopoulou, S. Kakogianni, I. Kallitsis, S. Logothetidis
NN14, 8-11/07/2014, Thessaloniki, Greece
Oral Presentation
49. **Bloodstains identification for forensic purposes using Raman Spectroscopy and AFM Imaging**
N. Marsouvanidis, S. Logothetidis, V. Karagkiozaki, P. Karagiannidis, A. Ioakeimidis, C. Vassara, P. Kavatzikidou, A. Laskarakis
NN14, 8-11/07/2014, Thessaloniki, Greece
Poster Presentation
50. **Intraocular Lens as a Drug Delivery System**
A. Karamitsos, I. Tsinopoulos, V. Karagkiozaki, L. Lamprogiannis, A. Laskarakis, M. Seitanidou, L. Papadopoulou, S. Logothetidis
NN14, 8-11/07/2014, Thessaloniki, Greece
Poster Presentation
51. **Robust investigation of the optical properties and morphology of photo-active layers for bulk heterojunction organic photovoltaics**
A. Laskarakis, E. Mekeridis, M. Seitanidou, S. Logothetidis
9th Workshop Ellipsometry 2015, March 3-5, 2015, Twente, The Netherlands
Oral Presentation (A. Zachariadis)
52. **Optical investigations of graphene layer homogeneity onto metallic substrates**
A. Zachariadis, A. Laskarakis, E. M. Pechlivani, C. Gravalidis, M. Gioti, S. Logothetidis
9th Workshop Ellipsometry 2015, March 3-5, 2015, Twente, The Netherlands
Poster Presentation
53. **In-line Spectroscopic Ellipsometry and Raman Spectroscopy investigation of morphology and bonding structure of photoactive layers for organic photovoltaics**
A. Laskarakis, A. Zachariadis, Ch. Kapnopoulos, E. Mekeridis, S. Logothetidis
LOPE-C 2015, 3-5 March, Munich, Germany
Poster Presentation
54. **Roll-to-roll printing and laser scribing process technology for the low-cost fabrication of flexible Organic Electronics**
S. Logothetidis, A. Laskarakis, Ch. Kapnopoulos, E. Mekeridis
LOPE-C 2015, 3-5 March, Munich, Germany
Poster Presentation
55. **Laser patterning for reel-to-reel production of organic photovoltaic (OPV) devices**
C. Moorhouse, D. M. Karnakis, A.J. Kearsley, C. Kapnopoulos, A. Laskarakis, S. Logothetidis, E. Mekeridis
Photonics West 2015
Oral Presentation
56. **Real-time optical monitoring of the thermal annealing effect on the Ag nanoparticles / polymers plasmonic blends**
S. Kassavetis, A. Laskarakis, E. Skoulioti, P. Patsalas, S. Logothetidis
EMRS Spring Meeting 2015, 11-15 May 2015, Lille France
57. **Extensive morphological and structural studies of perovskite based thin films for photovoltaics applications**
L. Tzounis, C. Gravalidis, A. Papamichail, I. Tsiaousis, C. Haidou, M. Gioti, A. Laskarakis, S. Logothetidis
EMRS Spring Meeting 2015, 11-15 May 2015, Lille France
Oral Presentation
58. **Spectroscopic Ellipsometry assessment of the emission of novel polymer nanomaterials for OLED applications**
M. Gioti, L. Tzounis, C. Pitsalidis, C. I. Chaidou¹, A. Zachariadis¹, A. Laskarakis¹, C. Gravalidis¹, A. K. Andreopoulou^{2,3}, E. Mparmpoutsis, J.K. Kallitsis^{2,3}, S. Logothetidis¹
Oral Presentation

- Symposium: I Semiconductor nanostructures towards electronic and opto-electronic device applications – V
EMRS Spring Meeting 2015, 11-15 May 2015, Lille France
59. **Gravure printed green emitting polymer on PET/ITO flexible substrates for OLED applications**
M. Gioti, C. Pitsalidis, C. Koidis, C. I. Chaidou, L. Tzounis, S. Tsimikli, C. Kapnopoulos, C. Polizoidis, C. Gravalidis, A. Laskarakis, S. Logothetidis
Symposium : I Semiconductor nanostructures towards electronic and opto-electronic device applications – V
EMRS Spring Meeting 2015, 11-15 May 2015, Lille France
Oral Presentation
60. **Gravure printed organic photovoltaic modules onto flexible substrates consisting of a P3HT:PCBM photoactive blend**
C. Kapnopoulos, E. D. Mekeridis, L. Tzounis, C. Polizoidis, S. Tsimikli, C. Gravalidis, A. Zachariadis, A. Laskarakis, I. Sismanidis, N. Vouroutzis, S. Logothetidis
ISFOE15, 6-9 July 2015, Thessaloniki, Greece
Oral Presentation
61. **On optimization of selective laser scribing of thin-film layers for the production of flexible organic photovoltaics**
N. Kontolatis, C. Kapnopoulos, E. Mekeridis, A. Laskarakis, S. Logothetidis
ISFOE15, 6-9 July 2015, Thessaloniki, Greece
Oral Presentation
62. **R2R process optimization of printed layers for Flexible Organic Photovoltaics using in-line, real time monitoring for Quality Control**
E. Mekeridis, N. Kontolatis, C. Kapnopoulos, A. Laskarakis, S. Logothetidis
ISFOE15, 6-9 July 2015, Thessaloniki, Greece
Oral Presentation
63. **R2R Encapsulation Process and Degradation Study of OPVs on Flexible Substrates**
S. Tsimikli, C. Kapnopoulos, E. D. Mekeridis, C. Polizoidis, N. Kontolatis, I. Sismanidis, A. Laskarakis, S. Logothetidis
ISFOE15, 6-9 July 2015, Thessaloniki, Greece
Oral Presentation
64. **Improvement of gravure-printed inverted OPV performance by enhancement of ZnO layer properties**
C.A. Polyzoidis, C. Kapnopoulos, A. Laskarakis, L. Tzounis, E. Mekeridis, S. Tsimikli, M. Seitanidou, S. Logothetidis
ISFOE15, 6-9 July 2015, Thessaloniki, Greece
Oral Presentation
65. **Hybrid Solar Cells based on Graphene Anode Electrodes**
E. M. Pechlivani, D. Papas, A. Zachariadis, A. Papamichail, A. Laskarakis S. Logothetidis
ISFOE15, 6-9 July 2015, Thessaloniki, Greece
Oral Presentation
66. **Performance effect of P3HT:PC60BM and P3HT:PC70BM based polymer solar cells via novel copolymer additives**
E. Chatzigeorgiou, A. Papamichail, A. Zachariadis, S. Kakogianni, J.K. Kallitsis, A.K. Andreopoulou, C. Kapnopoulos, C. Polyzoidis, K. Kyriazoudis, A. Laskarakis, C. Gravalidis, S. Logothetidis
ISFOE15, 6-9 July 2015, Thessaloniki, Greece
Poster Presentation
67. **Extensive morphological and structural studies of perovskite based thin films for photovoltaic applications**
L. Tzounis, C. Gravalidis, A. Papamichail, I. Tsiaousis, M. Gioti, A. Laskarakis, S. Logothetidis
ISFOE15, 6-9 July 2015, Thessaloniki, Greece
Poster Presentation
68. **Enhanced efficiency of Polymer-Fullerene Bulk Heterojunction Solar Cells via utilization of Laser Ablation produced noble metallic nanoparticles**
E. Skouliarioti, S. Kassavetis, A. Spiliotis, A. Laskarakis, P. Patsalas, S. Logothetidis
ISFOE15, 6-9 July 2015, Thessaloniki, Greece
Poster Presentation
69. **Efficient transfer of graphene grown on copper substrates using electrochemical delamination**
D. Papas, S. Chaitoglou, A. Zachariadis, E. M. Pechlivani, A. Papamichail, A. Laskarakis, S. Logothetidis
ISFOE15, 6-9 July 2015, Thessaloniki, Greece
Poster Presentation
70. **Organic and Printed Photovoltaics: Process and in-line Optical Monitoring**
A. Laskarakis, S. Logothetidis

- EUPVSEC 2015, 14-18 September 2015, Hamburg, Germany
Oral Presentation
71. **In-line Spectroscopic Ellipsometry and Raman Spectroscopy as powerful quality control tools for roll-to-roll manufacturing of Organic Electronics**
A. Laskarakis, S. Logothetidis, A. Zachariadis, C. Kapnopoulos, E. Mekeridis, V. Matskos
SEMICON Europa, Plastic Electronics 2015, 6-8 October 2015, Dresden, Germany
Oral Presentation
72. **Roll-to-roll processing of thin-film layers for the production of flexible organic photovoltaics via ultra-fast laser patterning**
A. Laskarakis
ILACOS 2015, 7 October 2015, Dresden, Germany
Oral Presentation
73. **Novel In-line Spectroscopic Ellipsometry and Raman Spectroscopy for quality control of roll-to-roll manufacturing of Organic Electronics**
A. Laskarakis, A. Zachariadis, C. Kapnopoulos, E. Mekeridis, V. Matskos, S. Logothetidis
MRS 2015, Boston, USA
Oral Presentation
74. **Ultra-fast laser patterning processes for roll-to-roll manufacturing of organic photovoltaics onto flexible substrates**
S. Logothetidis, N. Kontolatis, C. Kapnopoulos, E. Mekeridis, A. Laskarakis, V. Matskos
MRS 2015, Boston, USA
Poster presentation
75. **Development of Smart Machines, Tools and Processes for the Precision Synthesis of nanomaterials with tailored properties for Organic Photovoltaics (EU FP7 Project SMARTONICS)**
S. Logothetidis, A. Laskarakis
LOPE-C 2016 Conference and Exhibition, Munich, Germany
Poster Presentation
76. **Short pulse laser patterning processes for roll-to-roll manufacturing of organic photovoltaics**
S. Logothetidis, C. Kapnopoulos, E. Mekeridis, A. Laskarakis, V. Matskos
LOPE-C 2016 Conference and Exhibition, Munich, Germany
Oral Presentation
77. **In-line optical metrology tools for robust quality control of roll-to-roll manufacturing of Organic Electronics**
A. Laskarakis, S. Logothetidis, A. Zachariadis, C. Kapnopoulos, E. Mekeridis, V. Matskos
LOPE-C 2016 Conference and Exhibition, Munich, Germany
Poster Presentation
78. **Unique Roll-To-Roll Manufacturing Pilot Line with Laser Patterning and In-Line Optical Metrology for OPVs Mass Production**
A. Laskarakis, A. Zachariadis, C. Kapnopoulos, S. Logothetidis, E. Mekeridis, V. Matskos
Printed Electronics 2016, 28-29 April 2016, Munich, Germany
Oral Presentation
79. **Ultra- Short Laser Patterning Fabrication of Graphene Electrodes for Fabrication of Organic Photovoltaics**
E. M. Pechlivani, E. Mekeridis, D. Papas, A. Laskarakis, C. Gravalidis, V. Matskos and S. Logothetidis
E-MRS 2016 Spring Meeting, 2-6 May 2016, Lille, France
Oral Presentation
80. **Roll-to-Roll manufacturing of Organic Photovoltaics in pilot line with laser patterning and optical metrology for quality control**
S. Logothetidis, C. Kapnopoulos, E. Mekeridis, A. Zachariadis, V. Matskos and A. Laskarakis
E-MRS 2016 Spring Meeting, 2-6 May 2016, Lille, France
Poster Presentation
81. **Characterization of organic electronics devices in pilot lines using ellipsometry and Raman spectroscopy – the Smartonics project**
A. Laskarakis, A. Zachariadis, V. Matskos, V. Larat, M. Stchakovsky, J.-P. Gaston, S. Kashiwagi, M. Sallami, S. Logothetidis
E-MRS 2016 Spring Meeting, 2-6 May 2016, Lille, France
Poster Presentation
82. **In-Situ and Real-time Spectroscopic Ellipsometry of CVD grown Graphene on metallic substrates**
A. Zachariadis, A. Laskarakis, E.M. Pechlivani, V. Matskos, S. Logothetidis

- 7th International Conference on Spectroscopic Ellipsometry (ICSE-7), June 6-10, 2016, Berlin, Germany
Oral Presentation
83. **Novel in-line optical metrology for quality control of Roll-to-Roll printed nanomaterials for Organic Photovoltaics**
S. Logothetidis, C. Kapnopoulos, E. Mekeridis, A. Zachariadis, V. Matskos, A. Laskarakis
7th International Conference on Spectroscopic Ellipsometry (ICSE-7), June 6-10, 2016, Berlin, Germany
Oral Presentation
84. **Roll-to-Roll manufacturing of Organic Photovoltaics in pilot line with laser patterning and optical metrology for quality control**
S. Logothetidis, C. Kapnopoulos, E. Mekeridis, A. Zachariadis, V. Matskos and A. Laskarakis
9th International Symposium on Flexible Organic Electronics (ISFOE16), 4-7 July 2016, Thessaloniki, Greece
Oral Presentation
85. **Unique RR Pilot to Production line with In-line Optical Metrology (EU Project Smartonics)**
A. Laskarakis, S. Logothetidis
9th International Symposium on Flexible Organic Electronics (ISFOE16), 4-7 July 2016, Thessaloniki, Greece
Oral Presentation
86. **Perovskite solar cells from small scale spin coating processes towards roll-to-roll printing: Optical and Morphological studies**
L. Tzounis, T. Stergiopoulos, A. Zachariadis, C. Gravalidis, A. Laskarakis, S. Logothetidis
9th International Symposium on Flexible Organic Electronics (ISFOE16), 4-7 July 2016, Thessaloniki, Greece
Oral Presentation
87. **In-Situ and Real-time Spectroscopic Ellipsometry of CVD grown Graphene on metallic substrates**
A. Zachariadis, A. Laskarakis, E.M. Pechlivani, V. Matskos, S. Logothetidis
9th International Symposium on Flexible Organic Electronics (ISFOE16), 4-7 July 2016, Thessaloniki, Greece
Oral Presentation
88. **Manufacturing High efficiency, Large area, Fully printed, Flexible Organic Photovoltaics with Laser scribing, and In-line quality control tools in R2R process**
E. D. Mekeridis, S. Tsimikli, C. Kapnopoulos, D. Papas, A. Zachariadis, V. Matskos, A. Laskarakis, S. Logothetidis
9th International Symposium on Flexible Organic Electronics (ISFOE16), 4-7 July 2016, Thessaloniki, Greece
Oral Presentation
89. **A Novel Methodology for Patterning High Quality Graphene Electrodes using Ultra-Fast Pulsed Laser**
E. M. Pechlivani, E. Mekeridis, D. Papas, A. Zachariadis, A. Laskarakis, V. Matskos, C. Gravalidis, S. Logothetidis
9th International Symposium on Flexible Organic Electronics (ISFOE16), 4-7 July 2016, Thessaloniki, Greece
Oral Presentation
90. **The Influence of Silver Nanoparticles Incorporation on the Morphology and Structure of a Polymer-Fullerene Bulk Heterojunction**
E. Skouliarioti, S. Kassavetis, A. Spiliotis, K. Kyriazoudis, A. Zachariadis, A. Laskarakis, P. Patsalas, S. Logothetidis
9th International Symposium on Flexible Organic Electronics (ISFOE16), 4-7 July 2016, Thessaloniki, Greece
Oral Presentation
91. **Development of smart Machines, Tools and Processes for the precision synthesis of nanomaterials with tailored properties for Organic Electronics EU-FP7 Project SMARTONICS**
A. Laskarakis
10th International Symposium on Flexible Organic Electronics (ISFOE17), 3-6 July 2017, Thessaloniki, Greece
Oral Presentation
92. **In-Situ and Real-Time Spectroscopic Ellipsometry monitoring of Graphene growth by Chemical Vapour Deposition**
A. Laskarakis, A. Zachariadis, E.M. Pechlivani, A. Papamichail, V. Matskos, J. P. Gaston, A. Jouvray, S. Logothetidis
10th International Symposium on Flexible Organic Electronics (ISFOE17), 3-6 July 2017, Thessaloniki, Greece
Oral Presentation
93. **Manufacturing of Large area, Fully Printed, Flexible & Semi-Transparent Organic Photovoltaics (OPVs) in R2R process with In-line Quality Control**
E. Mekeridis, S. Tsimikli, C. Kapnopoulos, V. Matskos, A. Laskarakis, S. Logothetidis
10th International Symposium on Flexible Organic Electronics (ISFOE17), 3-6 July 2017, Thessaloniki, Greece
Oral Presentation (S. Tsimikli)
94. **Structural, morphological and In-Line Optical characterization of OVPD deposited organic small molecule thin films**
A. Papamichail, G. Nomikos, M. Chatzidis, A. Laskarakis, S. Logothetidis
10th International Symposium on Flexible Organic Electronics (ISFOE17), 3-6 July 2017, Thessaloniki, Greece
Oral Presentation (A. Papamichail)
95. **Insights on the growth mechanisms of CVD graphene by in-situ Spectroscopic Ellipsometry**
A. Zachariadis, A. Laskarakis, S. Logothetidis

- 10th International Symposium on Flexible Organic Electronics (ISFOE17), 3-6 July 2017, Thessaloniki, Greece
Oral Presentation (A. Zachariadis)
96. **Roll-to-Roll manufacturing of Organic Photovoltaics in pilot line with laser patterning and optical metrology for quality control**
C. Kapnopoulos, E. Mekeridis, S. Tsimikli, A. Laskarakis, S. Logothetidis
10th International Symposium on Flexible Organic Electronics (ISFOE17), 3-6 July 2017, Thessaloniki, Greece
Oral Presentation (C. Kapnopoulos)
97. **Fabrication of Organic Photovoltaic Devices at a Unique OVPD Pilot Line with High-Volume manufacturing**
M. Chatzidis, G. Nomikos, A. Papamichail, A. Laskarakis, S. Logothetidis
10th International Symposium on Flexible Organic Electronics (ISFOE17), 3-6 July 2017, Thessaloniki, Greece
Oral Presentation (M. Chatzidis)
98. **Perovskite Solar cells by Slot – die Coating**
C. Kamaraki, D. Kokkinos, C. Koutsiaki, K. Stavrou, C. Gravalidis, A.Laskarakis, S. Logothetidis
10th International Symposium on Flexible Organic Electronics (ISFOE17), 3-6 July 2017, Thessaloniki, Greece
Poster Presentation
99. **Organic Field-Effect Transistors based on air-brush sprayed small-molecule:insulating polymer blends with mobilities exceeding 1 cm²/Vs**
T. Kaimakamis¹, C. Pitsalidis², A. Papamichail¹, A. Laskarakis¹, S. Logothetidis¹,
10th International Symposium on Flexible Organic Electronics (ISFOE17), 3-6 July 2017, Thessaloniki, Greece
Poster Presentation
100. **Growth, characterization and transfer of CVD Graphene**
V. Kyriazopoulos, A.Laskarakis, S. Logothetidis
10th International Symposium on Flexible Organic Electronics (ISFOE17), 3-6 July 2017, Thessaloniki, Greece
Poster Presentation
101. **In-Situ and Real-Time Spectroscopic Ellipsometry monitoring of Graphene growth by Chemical Vapour Deposition**
A. Laskarakis, A. Zachariadis, E.M. Pechlivani, A. Papamichail, V. Matskos, J. P. Gaston, A. Jouvray, S. Logothetidis
Graphene Week Athens, 25-29 September 2017 Athens, Greece
Oral Presentation
102. **Novel methodology based on Spectroscopic Ellipsometry for In-Line and Real-Time quality control of Roll-to-Roll printed Perovskite films**
A. Zachariadis, C.Kamaraki, C.Kapnopoulos, A.Galatsopoulos, E.Mekeridis, A.Laskarakis, S.Logothetidis
11th International Symposium on Flexible Organic Electronics (ISFOE18), 2-5 July 2018, Thessaloniki, Greece
Oral Presentation (A. Zachariadis)
103. **Project FOF SmartLine: Smart In-line metrology and control for boosting the yield and quality of high-volume manufacturing of Organic electronics**
A. Laskarakis
11th International Symposium on Flexible Organic Electronics (ISFOE18), 2-5 July 2018, Thessaloniki, Greece
Oral Presentation
104. **In-Line Real-Time Spectroscopic Ellipsometry for quality control of Roll-to-Roll printed nanomaterials for Organic Photovoltaics**
A.Zachariadis, C. Kapnopoulos, E. Mekeridis, A. Laskarakis, S. Logothetidis
11th International Symposium on Flexible Organic Electronics (ISFOE18), 2-5 July 2018, Thessaloniki, Greece
Oral Presentation (A.Zachariadis)
105. **Growth of single-layer Graphene with Chemical Vapor Deposition on 6" copper substrates, characterization and transfer to arbitrary substrates**
V. Kyriazopoulos, M. Chatzidis, G. Nomikos, A. Papamichail, A. Laskarakis, S. Logothetidis
11th International Symposium on Flexible Organic Electronics (ISFOE18), 2-5 July 2018, Thessaloniki, Greece
Oral Presentation (V. Kyriazopoulos)
106. **Scalable Fabrication of flexible perovskite solar cells by slot - die coating**
C.Kamaraki, A.Zachariadis, C.Kapnopoulos, C.Koutsiaki, K. Stavrou, E.Mekeridis, C.Gravalidis, A.Laskarakis, S.Logothetidis (C.Kamaraki)
11th International Symposium on Flexible Organic Electronics (ISFOE18), 2-5 July 2018, Thessaloniki, Greece
Oral Presentation
107. **Plasmonic Organic Photovoltaics: Unraveling Plasmonic Enhancement for Realistic Cell Geometries**
Vangelidis, A. Theodosi, M. J. Beliatas, K. K. Gandhi, A. Laskarakis, P. Patsalas, S. Logothetidis, S. R. P. Silva, E. Lidorikis (I. Vangelidis)
11th International Symposium on Flexible Organic Electronics (ISFOE18), 2-5 July 2018, Thessaloniki, Greece
Oral Presentation
108. **OET hits 7.4% New World Record Efficiency for Single Structure Fully Printed Organic Photovoltaic by Roll to Roll Processes**
E. Mekeridis, S. Tsimikli, A. Zachariadis, E.M. Pechlivani, A. Laskarakis, C. Kapnopoulos, S. Logothetidis, V. Matskos
11th International Symposium on Flexible Organic Electronics (ISFOE18), 2-5 July 2018, Thessaloniki, Greece
Oral Presentation (V. Matskos)
109. **Intelligent Nanomanufacturing of Flexible Organic Electronic Devices**
A. Laskarakis

- 11th International Symposium on Flexible Organic Electronics (ISFOE18), 2-5 July 2018, Thessaloniki, Greece
Oral Presentation
110. **Installing Organic Photovoltaics on Greenhouse Roofs: Effects on Plant Growth and on the Operation of the Facility**
C. Zisis, S. Tsimikli, A. Laskarakis, E. Mekeridis, E. M Pechlivani, C.Gravalidis, M. Chatzidis, V. Matskos, S. Logothetidis
11th International Symposium on Flexible Organic Electronics (ISFOE18), 2-5 July 2018, Thessaloniki, Greece
Oral Presentation (C. Zisis)
111. **The influence of PC60BM layer on device performance in printed perovskite solar cells**
C. Kamaraki, A. Zachariadis, A. Galatsopoulos, C. Koutsiaki, K. Stavrou, C. Kapnopoulos, E. Mekeridis, S. Kassavetis, C. Gravalidis, A. Laskarakis, S. Logothetidis
11th International Symposium on Flexible Organic Electronics (ISFOE18), 2-5 July 2018, Thessaloniki, Greece
Poster Presentation
112. **Investigation of the optical properties of OVPD and VTE deposited thin films for Organic Photovoltaics (OPVs)**
V. Foris, A. Papamichail, A. Zachariadis, A. Laskarakis, S. Logothetidis
11th International Symposium on Flexible Organic Electronics (ISFOE18), 2-5 July 2018, Thessaloniki, Greece
Poster Presentation
113. **Comparable study on the properties of PBDB-T and ITIC thin films**
Z.Kyroudis, A.Zachariadis, C.Kapnopoulos, C.Kamaraki, K.Stavrou, E.Mekeridis, C.Gravalidis, A.Laskarakis, S.Logothetidis
11th International Symposium on Flexible Organic Electronics (ISFOE18), 2-5 July 2018, Thessaloniki, Greece
Poster Presentation
114. **Revolutionizing Nanomanufacturing of Flexible Organic Photovoltaics by Smart In-Line Metrology**
S. Logothetidis, E. Mekeridis, C. Kapnopoulos, A. Zachariadis, E.M Pechlivani, V. Matskos, **A. Laskarakis**, S. Kassavetis
i-PVTC 2018, 10 -12 September, 2018, Cassis - Domaine La Dona Tigana, France
Poster Presentation
115. **Intelligent Nanomanufacturing of Flexible Organic Electronic Devices - Towards the Industry 4.0**
A. Laskarakis
9th International Conference on Flexible and Printed Electronics 2018 (ICFPE 2018), 25-28 September 2018, Changzhou, China
116. **Vision for Factories of the Future in Horizon Europe: Nanomanufacturing of Organic Electronics**
A. Laskarakis
Factories of the Future Consultation Workshop, 11 October 2018, Brussels, Belgium
Oral Presentation
117. **Research activities of LTFN in Organic Electronics**
A. Laskarakis
1st Nano - Greece Workshop, October 2018, SUNUM, Sabanci University, Instabul, Turkey
Oral Presentation
118. **Bringing the Factory of the Future (SmartLine) and Open Innovation Environment (CORNET) in FPEs**
A. Laskarakis
9th Workshop on Flexible & Printed Electronics, 22/10/2018, Athens, Greece
Oral Presentation
119. **Intelligent Nanomanufacturing of Flexible Organic Electronic Devices: Towards the Industry 4.0**
S. Logothetidis, **A. Laskarakis**, E. Mekeridis, C. Kapnopoulos, E. M. Pechlivani, V. Matskos
IDTEchEx Printed Electronics USA 2018, 14-15/11/2018, Santa Clara, USA
Oral Presentation (S. Logothetidis)
120. **Intelligent Nano-manufacturing of Flexible Organic Electronics by In-Line Optical Metrology and Control**
A. Laskarakis, A. Zachariadis, E. Mekeridis, C. Kapnopoulos, E. M. Pechlivani, S. Logothetidis
International Exhibition and Conference for the Printed Electronics Industry (LOPE-C) 2019, March 19-21, 2019, Munich, Germany
Poster Presentation
121. **Enabling Artificial Intelligence in Nano-manufacturing of Printed Electronics by In-Line Metrology and Control**
A. Laskarakis
IDTechEx 2019 Connecting Emerging Technologies with Global Brands, April 10 - 11, 2019, Berlin, Germany
Oral Presentation
122. **In-line Spectroscopic Ellipsometry for quality control of digital nanomanufacturing processes for Organic Electronic Devices**
S. Logothetidis, **A. Laskarakis**, A. Zachariadis
8th International Conference on Spectroscopic Ellipsometry (ICSE-8), May 26-31 2019, Barcelona, Spain
Oral Presentation (S. Logothetidis)
123. **Spectroscopic Ellipsometry as an Essential Tool for the Characterization of Perovskite Photovoltaics**
A. Zachariadis, C. Kapnopoulos, C. Kamaraki, A. Galatsopoulos, E. Mekeridis, **A. Laskarakis**, S. Logothetidis
8th International Conference on Spectroscopic Ellipsometry (ICSE-8), May 26-31 2019, Barcelona, Spain
Oral Presentation (A. Zachariadis)
124. **Short pulse laser patterning processes for manufacturing of organic photovoltaics**
C. Kapnopoulos, E. Mekeridis, A. Zachariadis, P. Prodromidis, **A. Laskarakis**, C. Gravalidis, S. Logothetidis
EMRS 2019, 27-31 May 2019, Nice, France
Oral Presentation (C. Kapnopoulos)
125. **Study of Organic Photovoltaic Devices fabricated on a Cluster-OVPD Pilot Line**
M. Chatzidis, G. Nomikos, C. Gravalidis, A. Papamichail, **A. Laskarakis**, S. Logothetidis

- 12th International Symposium on Flexible Organic Electronics (ISFOE19), 1-4 July 2019, Thessaloniki, Greece
Oral Presentation (M. Chatzidis)
126. **Intelligent Manufacturing of Flexible & Printed Electronics Industry to Boost Digital Transformation (H2020 FoF Smartline)**
A. Laskarakis, S. Logothetidis
12th International Symposium on Flexible Organic Electronics (ISFOE19), 1-4 July 2019, Thessaloniki, Greece
Oral Presentation
127. **Multiscale modelling and characterization to optimize the manufacturing processes of Organic Electronics materials and devices (Horizon 2020 Project Cornet)**
A. Laskarakis, S. Logothetidis
12th International Symposium on Flexible Organic Electronics (ISFOE19), 1-4 July 2019, Thessaloniki, Greece
Oral Presentation
128. **In-Situ Real-Time Spectroscopic Ellipsometry study on the synthesis and optimization of Perovskite printed films**
A. Zachariadis, C. Kapnopoulos, C. Kamaraki, A. Galatsopoulos, E. Mekeridis, S. Kassavetis, C. Gravalidis, **A. Laskarakis**, S. Logothetidis
12th International Symposium on Flexible Organic Electronics (ISFOE19), 1-4 July 2019, Thessaloniki, Greece
Oral Presentation (A. Zachariadis)
129. **Fully printed flexible organic solar cells based on non-fullerene PBDB-T:ITIC system**
Z. Kyroudis, C. Kapnopoulos, A. Zachariadis, E. Mekeridis, S. Panos, D. Papadopoulou, C. Gravalidis, **A. Laskarakis**, S. Logothetidis
12th International Symposium on Flexible Organic Electronics (ISFOE19), 1-4 July 2019, Thessaloniki, Greece
Oral Presentation (Z. Kyroudis)
130. **Optical and structural characterization of terpolymer active materials for white OLEDs**
K. Papadopoulos, V. Kyriazopoulos, M. Gioti, S. Kassavetis, A. K. Andreopoulou, J. K. Kallitsis, **A. Laskarakis**, S. Logothetidis
12th International Symposium on Flexible Organic Electronics (ISFOE19), 1-4 July 2019, Thessaloniki, Greece
Poster Presentation
131. **Optimization of laser ablation processes for semitransparent flexible organic photovoltaic modules**
C. Kapnopoulos, E. Mekeridis, A. Zachariadis, P. Prodromidis, Z. Kyroudis, **A. Laskarakis**, C. Gravalidis, S. Logothetidis
12th International Symposium on Flexible Organic Electronics (ISFOE19), 1-4 July 2019, Thessaloniki, Greece
Oral Presentation (C. Kapnopoulos)
132. **Effect of small molecule:polymer insulating blends on performance of flexible OFETs based on R2R compatible solution-processing methods**
S. Grammatikos, S. Kassavetis, C. Gravalidis, **A. Laskarakis**, S. Logothetidis
12th International Symposium on Flexible Organic Electronics (ISFOE19), 1-4 July 2019, Thessaloniki, Greece
Poster Presentation
133. **Optical and structural characterization of blended active materials for white OLEDs (WOLEDs)**
V. Foris, V. Kyriazopoulos, E. Mekeridis, M. Gioti, **A. Laskarakis**, S. Logothetidis
12th International Symposium on Flexible Organic Electronics (ISFOE19), 1-4 July 2019, Thessaloniki, Greece
Poster Presentation
134. **A study of the morphological and structural properties of the non-fullerene PBDB-T:ITIC system and the fabrication of fully printed flexible organic solar cells**
Z. Kyroudis, A. Zachariadis, C. Kapnopoulos, E. Mekeridis, C. Gravalidis, A. Laskarakis, S. Logothetidis
13th International Symposium on Flexible Organic Electronics (ISFOE20), 6-9 July 2020, Thessaloniki, Greece
135. **Minimizing energy losses in short pulse laser patterning processes from single cell to RR printed semi-transparent flexible OPV modules**
C. Kapnopoulos, A. Zachariadis, E. Mekeridis, Z. Kyroudis, K. Tsimenidis, D. Grigoriadis, A. Laskarakis, S. Kassavetis, C. Gravalidis, S. Logothetidis
13th International Symposium on Flexible Organic Electronics (ISFOE20), 6-9 July 2020, Thessaloniki, Greece
136. **Investigation of the effect of ultraviolet radiation on the stability of fully printed organic solar cells and optimization of electron transport layer**
E. Doudis, G. Atsas, V. Foris, C. Kapnopoulos, E. Mekeridis, A. Laskarakis, S. Logothetidis
13th International Symposium on Flexible Organic Electronics (ISFOE20), 6-9 July 2020, Thessaloniki, Greece
137. **FoF SmartLine - Smart In-line metrology and control for boosting the yield and quality of high-volume manufacturing of Organic electronics**
RealNano - In-line and Real-time Nano-characterization technologies for the high yield manufacturing of Flexible Organic Electronics
A. Laskarakis
13th International Symposium on Flexible Organic Electronics (ISFOE20), 6-9 July 2020, Thessaloniki, Greece
138. **Industrial Manufacturing of fully printed Organic Photovoltaics (OPVs) by intelligent and automated decision process**
E. Mekeridis, C. Varlamis, A. Galatsopoulos, V. Kyriazopoulos, L. Patsiouras, S. Fachouri, C. Kapnopoulos, A. Zachariadis, A. Laskarakis, S. Logothetidis
13th International Symposium on Flexible Organic Electronics (ISFOE20), 6-9 July 2020, Thessaloniki, Greece
139. **Towards Large Scale Manufacturing of Solution processed Polymer OLEDs**
V. Kyriazopoulos, D. Tselekidou, L. Panagiotidis, K. Papadopoulos, E. Mekeridis, M. Gioti, A. Laskarakis, S. Logothetidis
13th International Symposium on Flexible Organic Electronics (ISFOE20), 6-9 July 2020, Thessaloniki, Greece
140. **Solution processed single emitting layer white OLEDs based on novel copolymers**
K. Papadopoulos, D. Tselekidou, M. Gioti, V. Kyriazopoulos, S. Kassavetis, A. K. Andreopoulou, K. Andrikopoulos, J. K. Kallitsis, A.

Laskarakis, S. Logothetidis

13th International Symposium on Flexible Organic Electronics (ISFOE20), 6-9 July 2020, Thessaloniki, Greece

Poster Presentation

141. Improvement of flexible OFET devices performance by employing spray coated small molecule:polymer insulating blends

S. Grammatikos, T. Kaimakamis, S. Panos, A. Laskarakis, S. Logothetidis

13th International Symposium on Flexible Organic Electronics (ISFOE20), 6-9 July 2020, Thessaloniki, Greece

Poster Presentation

Annex 4: Invited Presentations in European & National Conferences & Events

1. **XVI Symposium on Condensed Matter Physics (SFKM 04), 20-23/09/2004, Sokobanja, Serbia**
"Optical and electronic properties of polymeric materials"
2. **Παγκόσμιο Έτος Φυσικής 2005, Ημερίδα "Ερευνητικές Δραστηριότητες στο Τμήμα Φυσικής", Τμήμα Φυσικής, ΑΠΘ**
"Εύκαμπτες Ηλεκτρονικές Διατάξεις"
3. **3rd Workshop on Nanosciences & Nanotechnologies - NN06, 10-21 July 2006, Thessaloniki, Greece**
"Flexible Electronic Devices: Basic Principles, Processes and Applications"
4. **71^η Διεθνής Έκθεση Θεσσαλονίκης 2006, Πρόγραμμα Εκδηλώσεων "Καινοτομία", ΓΓΕΤ**
"Νανοτεχνολογία και Ενεργειακές Εφαρμογές"
5. **3rd NanoCharm Workshop on Non-Destructive Real Time Process Control, 13 - 15 October, 2010, Berlin, Germany**
"Optical properties of transparent electrodes by IR to far UV Spectroscopic Ellipsometry"
6. **Ex-Post Evaluation of FP6 (NMP) European Commission Projects, Validation Meeting, 13 April 2011, Brussels, Belgium**
"Presentation of Success Story: FP6 Project Flexonics"
7. **1^ο Πανελλήνιο Συνέδριο Φυσικών Επιστημών: Φυσικές Επιστήμες & Νέες τεχνολογίες στον 21^ο Αιώνα, Ένωση Ελλήνων Φυσικών, 16 Οκτωβρίου 2011, Παν. Μακεδονίας, Thessaloniki**
"Νανοτεχνολογία και Εφαρμογές"
8. **Ημερίδα Ένωσης Ελλήνων Φυσικών, 26 Ιουνίου 2012, Γιαννιτσά**
"Νανοτεχνολογία και Εφαρμογές"
9. **Workshop: Creating the Organic Electronic Industry in Greece, 21/12/2012, Athens, Greece**
"National R&D Projects in Organic Electronics: NANORGANIC – YFATRONIC"
10. **5^ο Πολυσυνέδριο Καινοτομία & Ανάπτυξη, 18 Νοεμβρίου 2013, Thessaloniki, Ελλάδα**
"Νανοτεχνολογία & Οργανικά Ηλεκτρονικά: Αριστεία - Ανθρώπινο Δυναμικό"
11. **Το ΑΠΘ στο ΝΟΗΣΙΣ: Συνάντηση Καινοτομίας, Εκπαίδευσης & Πολιτισμού, 18-20/01/2013, Thessaloniki, Ελλάδα**
"Οργανικά Ηλεκτρονικά στο ΑΠΘ"
12. **Horiba Webinar, 10 September 2013**
"Spectroscopic Ellipsometry Characterization of Nanomaterials for Organic Electronics"
13. **7th Workshop: "Creating the Organic & Printed Electronics Industry in Greece", 18-19.12.2014, Thessaloniki, Greece**
"Smartonics: R2R printing and Gas Transport Pilot Lines for OEs"
14. **Εσπερίδα "Η ΧΡΗΜΑΤΟΔΟΤΟΥΜΕΝΗ ΕΡΕΥΝΑ ΤΟΥ ΣΗΜΕΡΑ ΚΑΙ ΤΟΥ ΑΥΡΙΟ: ΕΜΠΕΙΡΙΕΣ ΚΑΙ ΠΡΟΟΠΤΙΚΕΣ ΣΤΗ Σ.Θ.Ε.", 23 Φεβρουαρίου 2016, Σχολή Θετικών Επιστημών, ΑΠΘ**
"Αξιολόγηση προτάσεων: η περίπτωση των FET, NMP ICT & REGIONAL"
15. **3^ο ΕΚΠΑΙΔΕΥΤΙΚΟ ΣΕΜΙΝΑΡΙΟ Τυπωμένων Ηλεκτρονικών & Έξυπνης Συσκευασίας, 14 Μαΐου 2016**
"Οργανικά & Εκτυπώσιμα Ηλεκτρονικά: Δημιουργώντας το αύριο στην Ελλάδα και Διεθνώς"
16. **EU PV Clusters 3rd Workshop and General Assembly: Progress in Advanced Materials and Nanotechnology for Photovoltaics: from Laboratory to the Market. A central pillar for the European PV innovation strategy, 28-29 May 2016, Barcelona, Spain**
"Development of smart machines, tools and processes for the precision synthesis of nanomaterials with tailored properties for Organic Electronics"
17. **INDUSTRIAL TECHNOLOGIES 2016, 22-24 June 2016, Amsterdam, The Netherlands**
"Development of Smart Machines, Tools and Processes for the Precision Synthesis of nanomaterials with tailored properties for Organic Photovoltaics"
Track & Session: Revolution by technology & innovation
18. **JEUISTE: Nanomaterials and Bionanoscience in Japan-Europe Cooperation, Europe-Japan academic workshop for sharing ideas and experiences towards strategic partnership building, 5 July 2016, Thessaloniki, Greece**
"The status of Nanomaterials and Bionanoscience research in Europe"
19. **XXXII Panhellenic Conference on Solid State Physics & Materials Science, 18-21 September 2016, Ioannina, Greece**
"Development of smart machines, tools and processes for the precision synthesis of nanomaterials with tailored properties for Organic Electronics"
20. **MRS Fall Meeting & Exhibit 2016, November 27-December 2, 2016, Boston, Massachusetts, USA**
Symposium EM4—Structure-Property Relationships of Organic Semiconductors
"Revolutionizing Roll-to-Roll manufacturing of Organic Photovoltaics by robust in-line optical metrology"

21. **WPRC Annual Technical Conference, 7-8 November 2016, Swansea, UK**
“Roll-to-Roll manufacturing pilot line with in-line optical metrology for quality control and laser patterning for mass production of OPVs”
22. **Workshop on Horizon 2020, 22 September 2016, Technopoli, Athens**
“How to submit a successful R&D proposal in H2020 – Tips for success from EU evaluators”
23. **17^ο Συνέδριο Ένωσης Ελλήνων Φυσικών, 15-18 Μαρτίου 2018, Θεσσαλονίκη**
“Εξυπηνη Εκτύπωση Οργανικών Ηλεκτρονικών: Η Νέα Ψηφιακή Παραγωγή Νανοδιατάξεων 2018”
24. **European Materials Characterisation Council (EMCC), 11 June 2018, Brussels, Belgium**
“The concept of Open innovation in the CORNET Project”
25. **Intelligent Nanomanufacturing of Flexible Organic Electronic Devices**
A. Laskarakis
11th International Symposium on Flexible Organic Electronics (ISFOE18), 2-5 July 2018, Thessaloniki, Greece
Keynote Oral Presentation
26. **Intern. Conference on Flexible & Printed Electronics (ICFPE) 2018**, “Intelligent Nanomanufacturing of Flexible Organic Electronics: Towards the Industry 4.0”, 25-28 Sep. 2018, Changzhou, China
27. **9th Workshop on FPE Industry (Targeting the Digital Transformation)**, “Bringing the Factory of the Future and Open Innovation Environment in FPEs”, 22 October 2018, Athens, Greece
28. **7th Korea-EU NanoWorkshop**, “Intelligent In-line Optical Metrology for the optimization of manufacturing of Flexible Organic Electronic Devices”, 12 November 2018, Seoul, Korea
29. **IDTechEx 2019**, “Enabling Artificial Intelligence in Nano-manufacturing of Printed Electronics by In-Line Metrology and Control”, 10-11 April 2019 / Berlin, Germany
30. **MRS Fall Meeting 2019**, “Optimization of Large Area Manufacturing of Fully Printed Organic Electronic Devices by Robust in-Line Investigations and Modelling”, 1-6/12/2019, Boston, USA

Annex 5: Presentations in Greek Scientific Conferences

1. **“Nanoindentation on the study of mechanical properties of of amorphous tetrahedral carbon thin films”**
C. Charitidis, P. Douka, M. Gioti, A. Laskarakis, S. Logothetidis
XIII Panhellenic Conference on Solid State Physics, September 1997, Thessaloniki
Poster Presentation
2. **“Superlinearity of synthetic quartz: Dependence from the Pre-dose”**
C. Charitidis, A. Laskarakis, G. Kitis, S. Charalambous
XIII Panhellenic Conference on Solid State Physics, September 1997, Thessaloniki
Poster Presentation
3. **“Superlinearity of synthetic quartz: Dependence from the annealing temperature”**
C. Charitidis, A. Laskarakis, G. Kitis, S. Charalambous
XIII Panhellenic Conference on Solid State Physics, September 1997, Thessaloniki
Poster Presentation
4. **“Superlinearity of synthetic quartz: Dependence from the heating rate”**
C. Charitidis, A. Laskarakis, G. Kitis, S. Charalambous
XIII Panhellenic Conference on Solid State Physics, September 1997, Thessaloniki
Poster Presentation
5. **“Superlinearity in the thermoluminescence of LiF (TLD-700)”**
G. Kitis, A. Laskarakis, J. W. N. Tuyn
XIII Panhellenic Conference on Solid State Physics, September 1997, Thessaloniki
Poster Presentation
6. **“IR Spectroscopic Ellipsometry on the study of boron and carbon nitrides”**
A. Laskarakis, M. Gioti, P. Patsalas, H. Lefakis, S. Logothetidis
XIV Panhellenic Conference on Solid State Physics, September 1998, Ioannina
Oral Presentation
7. **“Comparison of the nanomechanical measurement techniques for the mechanical properties of amorphous carbon thin films ”**
C. Charitidis, A. Laskarakis, S. Logothetidis
XIV Panhellenic Conference on Solid State Physics, September 1998, Ioannina
Poster Presentation
8. **“A study on the bonding structure and the nitrogen distribution on CN_x thin films by IR and NIR-VIS-UV ellipsometry”**
A. Laskarakis, S. Logothetidis
XVI Panhellenic Conference on Solid State Physics and Materials Science, September 2000, Nafplio
Poster Presentation
9. **“Variation of nitrogen incorporation and bonding configuration of carbon nitride films studied by X-ray photoelectron spectroscopy (XPS) and Fourier transform infrared (FT-IR) spectroscopic ellipsometry”**
S. Kennou, S. Logothetidis, L. Sygkelou, A. Laskarakis, D. Sotiropoulou, Y. Panayiotatos
XVII Panhellenic Conference on Solid State Physics and Materials Science, September 2001, Xanthi
Poster Presentation
10. **“Mueller Matrix Spectroscopic Ellipsometry: Formulation and Application”**
A. Laskarakis, S. Logothetidis, E. Pavlopoulou, M. Gioti
XIX Panhellenic Conference on Solid State Physics and Materials Science, September 2003, Thessaloniki
11. **“An complementary spectroscopic ellipsometry study of PET membranes from IR to Vis-fUV”**
A. Laskarakis, M. Gioti, E. Pavlopoulou, N. Poulakis, S. Logothetidis,
XIX Panhellenic Conference on Solid State Physics and Materials Science, September 2003, Thessaloniki
Oral Presentation
12. **“Study of optical and nanostructural properties of amorphous hydrogenated carbon films”**
E. Pavlopoulou, A. Laskarakis, P. Patsalas, S. Logothetidis, I. Pocsik
XIX Panhellenic Conference on Solid State Physics and Materials Science, September 2003, Thessaloniki
Oral Presentation
13. **“VIS-FUV and FTIR real time spectroscopic ellipsometry studies of polymer surface modifications during ion beam bombardment”**
A. Laskarakis, C. Gravalidis, S. Logothetidis

- XIX Panhellenic Conference on Solid State Physics and Materials Science, September 2003, Thessaloniki
Oral Presentation
14. **“Study of nanomechanical and optical properties of anti-scratch coatings on polycarbonate lenses”**
S. Kassavetis, C. Charitidis, A. Laskarakis, C. Gravalidis, S. Logothetidis
XX Panhellenic Conference on Solid State Physics and Materials Science, September 2004, Ioannina
Poster Presentation
15. **“Modification and activation of polymer membranes for biomedical applications”**
E. Papaioannou, S. Logothetidis, A. Laskarakis, C. Gravalidis, M. Arsenakis
XX Panhellenic Conference on Solid State Physics and Materials Science, September 2004, Ioannina
Poster Presentation
16. **“Modification and activation of PolyEthylene Terephthalate with N2 plasma for biomedical applications”**
E. Papaioannou, S. Logothetidis, A. Laskarakis, S. Kassavetis, S. Lousinian, K. Mitsakakis
5th Panhellenic Conference of Chemical Engineering, 26-28/05/2005, ATh
Poster Presentation
17. **“Influence of surface modification on the optical properties and nanotopography of PolyCarbonate lenses”**
A. Laskarakis, C. Gravalidis, S. Kassavetis, S. Logothetidis
XXI Panhellenic Conference on Solid State Physics and Materials Science, August 2005, Nicosia, Cyprus
Poster Presentation
18. **“Surface modification of Poly(Ethylene Terephthalate) polymeric films for flexible electronics applications”**
A. Laskarakis, S. Logothetidis, S. Kassavetis,
XXII Panhellenic Conference on Solid State Physics and Materials Science, September 2006, Patra
Poster Presentation
19. **“Deposition Of High Barrier Thin Films On Polymeric Materials”**
Logothetidis S., Georgiou D., Goktsis N., Koidis C., Laskarakis A., Lousinian S.
XXII Panhellenic Conference on Solid State Physics and Materials Science, September 2006, Patra
Poster Presentation
20. **“Growth, Optical and Nanostructural Properties of Magnetron Sputtered ZnO Thin Films Deposited on Polymeric Substrates”**
C. Koidis, D. Georgiou, N. Goktsis, S. Lousinian, A. Laskarakis, S. Logothetidis, I. Tsiaoussis and N. Frangis
XXIII Panhellenic Conference on Solid State Physics and Materials Science, 23 - 26 September 2007, Athens
Poster Presentation
21. **“FTIR and Vis–FUV Ellipsometry Studies of Surface Modified PET Substrates and PEDOT:PSS Thin Films”**
C. Evangelis, S. Logothetidis, D. Georgiou, A. Laskarakis
XXIV Panhellenic Conference on Solid State Physics and Materials Science, September 21-24, 2008, Crete, Greece
Poster Presentation
22. **“Effect of Thickness in the Optical Properties of Organic Thin Films Deposited via Organic Vapor Phase Deposition”**
Laskarakis, D. Georgiou, S. Logothetidis, C. Gravalidis, N. Meyer, D. Keiper, M. Heuken, M. Bösing, F. Lindl, H. Kalisch and R. H. Jansen
XXV Panhellenic Conference on Solid State Physics and Materials Science, September 21-24, 2009, Thessaloniki, Greece
Poster Presentation
23. **“Effect of Thickness on the Optical Properties of CuPc and C60 Thin Films for Organic Photovoltaic Applications”**
D. Georgiou, A. Laskarakis, S. Logothetidis, C. Gravalidis, N. Meyer, M. Heuken, M. Rusu, M. Ch. Lux-Steiner, S. Wiesner and K. Fostiropoulos
XXV Panhellenic Conference on Solid State Physics and Materials Science, September 21-24, 2009, Thessaloniki, Greece
Poster Presentation
24. **“Latest advances on active and passive materials for flexible organic electronics”**
A.Laskarakis, D. Georgiou, C. Koidis, P. Karagiannidis, and S. Logothetidis
XXVI Panhellenic Conference on Solid State Physics and Materials Science, September 26-29, 2010, Ioannina, Greece
Oral Presentation
25. **“Optical metrology for manufacturing of Organic Electronics”**
A.Laskarakis
XXXII Panhellenic Conference on Solid State Physics & Materials Science, 18 to 21 of September 2016, Ioannina, Greece
Invited Oral Presentation

Annex 6: Participation & Presentations in Workshops and Exhibitions

1. 12th International Fair of Information & HiTech Systems: INFOSYSTEM – HITECH
Presentation and promotion of the results of the EPET II, BRITE-EURAM (BRPR-CT96-0265), HELEXPO, Thessaloniki, Greece (30/9 - 4/10/1998)
2. 65th International Fair of Thessaloniki 2000
Presentation and promotion of the results of the EPET II, BRITE-EURAM (BRPR-CT96-0265), and ΥΠΕΡ-97 #3-211 HELEXPO, Thessaloniki, Greece (02-11/09/2000)
3. European Platform of Nanomaterials (EUMAT), General Assembly Meeting, June 2006, Rome, Italy
“Activities of LTFN - Greek Cluster of EUMAT”
4. 3rd Global Plastic Electronics Conference and Showcase, 28-29 October 2007, Frankfurt, Germany
Chairman in the Symposium “Hybrid Opportunities”
5. Micro- and Nano- Manufacturing in FP7, Brokerage and Information Event, 29 Jan 2008, Brussels, Belgium
Presentation of the results of the project FP6 NMP STREP Flexonics
6. 4th International Conference on Nanosciences & Nanotechnologies - NN08, 14-16 July 2008, Thessaloniki, Greece
Chairman in the Session “Theoretical and Computational Modelling at the Nanoscale”
7. 1st International Symposium on Flexible Organic Electronics (IS-FOE), 9-11 July 2008, Halkidiki, Greece
Chairman in the Session “Theory & modelling (materials, components and devices)”
8. 4th Global Plastic Electronics Conference and Showcase που πραγματοποιήθηκε στις 28-29 October 2008, Maritim Hotel, Berlin, Germany
Co-Chair in the Symposium “Inorganic-Organic Hybrids”
9. 2nd International Symposium on Flexible Organic Electronics (IS-FOE09), 8-10 July 2009, Halkidiki, Greece
Chairman in the Session “Flexible solar cells & batteries”
10. 6th International Conference on Nanosciences & Nanotechnologies - NN09, 13-15 July 2009, Thessaloniki, Greece
Chairman in the Session “Thin Films, Metamaterials & Spintronics”
11. 2nd NanoCharM European School on Ellipsometry, Fundamentals and Applications in Nanoscience and Nanotechnology, 30 Aug. - 3 Sep. 2009, Belgrade, Serbia
Chairman
12. 5th Global Plastic Electronics Conference and Exhibition, 27-29 October 2009, Dresden, Germany
13. 75^η Διεθνής Έκθεση Θεσσαλονίκης 11-19.09.2010
14. Plastic Electronics Conference & Exhibition 2010, October 19 – 21, 2010 Dresden / Germany
15. Plastic Electronics Conference & Exhibition 2011, October 11 – 13, 2011 Dresden / Germany
16. Printed Electronics Europe 2012, 3-4 April 2012, Berlin, Germany
17. 4th International Conference and Exhibition for the Organic and Printed Electronics Industry (LOPE-C), 19-21 June 2012, Munich, Germany
18. Plastic Electronics Conference & Exhibition 2012, 9-11 October 2012, Dresden, Germany
19. Printed Electronics Europe 2013, 16-19.04.2013, Berlin, Germany
20. 5th International Conference and Exhibition for the Organic and Printed Electronics Industry (LOPE-C), 10-13 June 2013, Munich, Germany
21. SEMICON Plastic Electronics Conference & Exhibition 2013, 7-12 October 2013, Dresden, Germany
22. 6th International Conference & Exhibition for Organic & Printed Electronics Industry (LOPE-C), 26-28/5/2014, Munich, Germany
23. SEMICON Plastic Electronics Conference & Exhibition 2014, 7-9 October 2014, Grenoble, France
24. 7th Int. Conference and Exhibition for the Organic and Printed Electronics Industry (LOPE-C), 3-5/3/2015, Munich, Germany
25. Printed Electronics Europe 2015, 28-29 April 2015, Berlin, Germany
26. SEMICON Plastic Electronics Conference & Exhibition 2015, 4-9 October 2015, Dresden, Germany
27. 8th Int. Conference and Exhibition for the Organic and Printed Electronics Industry (LOPE-C), 5-7/4/2016, Munich, Germany
28. Printed Electronics Europe 2016, 27-28 April 2016, Berlin, Germany
29. Graphene Week 2017, 25-29 September 2017, Athens Greece
30. Industrial Innovation Information Days, 3-4 October 2017, Brussels
31. ManufatureZero Defect Manufacturing Sub-platform, October 5, 2017, Brussels

32. European Commission Info Days, 3-4 October 2017 Brussels
33. EU Pilot Production Network Workshop, 27-28 November 2017, Brussels
34. 10th International Conference and Exhibition for the Organic and Printed Electronics Industry (LOPE-C), 13-15 March 2018, Munich, Germany
35. Printed Electronics Europe 2018, 11-12 April 2018, Berlin, Germany

Annex 7: Participation in R&D Projects (European, National)

1. **“Deployment of in-situ optical monitoring Techniques for Tailoring Film Properties and Specific Advanced Industrial Applications” (ISOTECH)**
European Commission Project BRITE EURAM III BRPR-CT96-0265 (1/1997-12/1999)
2. **“Functionalized ceramic membrane filter for highly efficient soot particle removal (CERFIL)”**
European Commission Project BRITE EURAM III No: BE97 – 5088 (7/1998-6/2001)
3. **“Multiwavelength sensor for sub-micron particle analysis (MULTISENS)”**
European Commission Project CRAFT (2/1999-7/2001)
4. **“Development of nanostructural thin films (ultrahard - biomedical – decorative – biocompatible - anti-microbial), with state-of-the-art applications, Investigation of exploitation of technology results” (PENED2003)**
Greek Secretariat of Science and Technology (GSRT), Program for the Reinforcement of Young Scientists 2003, 03ED613
5. **“Development and study of new forms of carbon and their properties for applications in nano and nano-bio-technology”**
Greek Secretariat of Science and Technology (GSRT), Joint Research and Technological Framework Greece-Serbia (2003-2005)
6. **“Ultra-high barrier films for r2r encapsulation of flexible electronics (Flexonics)”**
FP6 European Commission NMP STREP Project (2005-2008)
7. **“Development of nanostructural organic and inorganic materials and films for the production of organic electronic devices” (NANORGANIC)**
Greek Secretariat of Science and Technology (GSRT), Framework Cooperation, Stage 1: Cooperative small and medium scale projects (2009)
8. **“Development of integrated flexible textile and electronic devices” (YFATRONIC)**
Greek Secretariat of Science and Technology (GSRT), Framework Cooperation, Stage 1: Cooperative small and medium scale projects (2009)
9. **“Development and integration of processes & technologies for the production of Organic Low-cost & large-Area flexible Electronics” (OLATronics)**
FP7 European Commission ICT STREP Project (2008-2011)
10. **“Network of Excellence for building up Knowledge for improved Systems Integration for Flexible Organic and Large Area Electronics (FOLAE) and its exploitation” (FlexNet)**
FP7 European Commission Network of Excellence Project (2010-2013)
11. **“Reinforce Organic Electronics Research Potential in Kentriki Makedonia” (ROleMak)**
FP7 European Commission Coordination and support action REGPOT-2011-1, Activity: 4.1. Unlocking and developing the Research Potential of research entities established in the EU’s Convergence Regions and Outermost regions (2011-2014)
12. **“COLAE- Commercialization Clusters of OLAE”**
FP7 European Commission Coordination and support action Project (2011-2014)
13. **“Development of smart machines, tools and processes for the precision synthesis of nanomaterials with tailored properties for Organic Electronics (Smartonics)”**
European Commission, FP7 NMP Large Scale Project (2013-2017)
14. **“Smart In-line metrology and control for boosting the yield and quality of high-volume manufacturing of Organic electronics (SmartLine)”**
European Commission, H2020-FOF-08-2017 Project (2017-2020)

15. **Multiscale modelling and characterization to optimize the manufacturing processes of Organic Electronics materials and devices (CORNET)**
EU H2020 NMBP-07-2017 Research & Innovation Action (2018-2021)
16. **In-line and Real-time Nano-characterization technologies for the high yield manufacturing of Flexible Organic Electronics (RealNano)**
European Commission, H2020 (2020-2023)

Annex 8: Visits in Research Institutes, Universities and Companies

1. March 2000: Technical University of Offenburg, Offenburg, Germany
2. March 2005 : Fraunhofer Institute for Process Engineering and Packaging IVV, Freising, Germany
3. March 2005 Fraunhofer Institute for Silicate Research ISC, Wurzburg, Germany
4. May 2005: Horiba Jobin Yvon, Paris, France
5. September 2005: Fraunhofer Institute for Process Engineering and Packaging IVV, Freising, Germany
6. January 2006: Horiba Jobin Yvon, Paris, France
7. February 2006: BESSY II, Berlin, Germany
8. February 2006: Institute for Analytical Sciences (ISAS), Berlin, Germany
9. September 2006: Graz University of Technology, Graz, Austria
10. September 2006: ISOVOLTA, Austria
11. February 2007: Applied Materials, Alzenau, Germany
12. February 2007: Fraunhofer Institute for Silicate Research ISC, Wurzburg, Germany
13. September 2007: Siemens AG, Corporate Technology, Erlangen, Germany
14. January 2008: Fraunhofer Institute for Process Engineering and Packaging IVV, Freising, Germany
15. August 2008: Ecole Polytechnique, Laboratoire de Physique des Interfaces et Couches Minces (LPICM), Paris, France
16. August 2008: Horiba Jobin Yvon (Thin Films Division Paris, France & Raman Division - Lille, France)
17. October 2008: Fraunhofer Institut für angewandte Polymerforschung (IAP), Berlin, Germany
18. February 2009: Fraunhofer Institute for Process Engineering and Packaging IVV, Freising, Germany
19. August 2009: Ecole Polytechnique, Laboratoire de Physique des Interfaces et Couches Minces (LPICM), Paris, France
20. August 2009: Horiba Jobin Yvon, Thin Films Division, Paris, France
21. January 2010: Fraunhofer Institut für angewandte Polymerforschung (IAP), Berlin, Germany
22. March 2010: Fraunhofer Institute for Process Engineering and Packaging IVV, Freising, Germany
23. April 2011: Fraunhofer Institute for Process Engineering and Packaging IVV, Freising, Germany
24. March 2013: AIXTRON, Aachen, Germany
25. March 2013: Coatema, Dormagen, Germany
26. April 2013: Horiba Jobin Yvon, Thin Films Division, Paris, France
27. September 2013: AIXTRON, Cambridge, UK
28. October 2013: University of Stuttgart, Germany
29. November 2013: Fraunhofer COMEDD, Dresden, Germany
30. January 2014: Horiba Jobin Yvon, Thin Films Division, Paris, France
31. September 2014: Fraunhofer Institute for Process Engineering and Packaging IVV, Freising, Germany
32. October 2014: CEA LITEN, Grenoble, France
33. October 2014: Coatema Machinery, Dormagen, Germany
34. November 2014: Horiba Jobin Yvon, Paris, France
35. January 2015: University of Oxford, Oxford, UK
36. January 2015: University of Nottingham Trent, Nottingham, UK
37. February 2015: Coatema Machinery, Dormagen, Germany
38. April 2015: Fraunhofer Forum, Berlin, Germany
39. January 2016: Fraunhofer IAP, Potsdam, Germany
40. March 2016: Centro Riserche Fiat, Italy
41. May 2016: Nanogune, San Sebastian, Spain
42. March 2017: AIXTRON Ltd, Cambridge, UK
43. April 2018, Laytec, Berlin, Germany
44. January 2019, Granta Design, Cambridge, UK

Annex 9: Organization of International Scientific Conferences & Workshops

1. **XIX Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης & Επιστήμης Υλικών**
Θεσσαλονίκη 21–24 /9/2003.
2. **3rd Workshop on Nanosciences & Nanotechnologies - NN06**
10-12/07/2006, Thessaloniki, Greece
3. **4th International Workshop on Nanosciences & Nanotechnologies - NN07**
16-18/07/2007, Thessaloniki, Greece
4. **5th International Conference on Nanosciences & Nanotechnologies - NN08**
14-16/07/2008, Thessaloniki, Greece
5. **1st International Symposium on Flexible Organic Electronics (ISFOE)**
Halkidiki, Greece, 9-11/07/2008
6. **4th Global Plastic Electronics Conference and Showcase, Symposium “Inorganic-Organic Hybrids”**
28-29 October 2008, Berlin, Germany
7. **2nd International Symposium on Flexible Organic Electronics (ISFOE09)**
Halkidiki, Greece, 8-10/07/2009.
8. **6th International Conference on Nanosciences & Nanotechnologies (NN09)**
13-15/07/2009, Thessaloniki, Greece
9. **3rd International Symposium on Flexible Organic Electronics (ISFOE10)**
Halkidiki, Greece, 6-9/07/2010.
10. **7th International Conference on Nanosciences & Nanotechnologies (NN10)**
Ouranoupolis, Greece 11-14/07/2010.
11. **4th International Symposium on Flexible Organic Electronics (ISFOE11)**
10-13/07/2011, Thessaloniki, Greece
12. **8th International Conference on Nanosciences & Nanotechnologies – NN11**
12-15/07/2011, Thessaloniki, Greece
13. **5th International Symposium on Flexible Organic Electronics – ISFOE12**
2-5/07/2012, Thessaloniki, Greece
14. **9th International Conference on Nanosciences & Nanotechnologies – NN12**
3-6/07/2012, Thessaloniki, Greece
15. **6th International Symposium on Flexible Organic Electronics (ISFOE13)**
8-11/07/2013, Thessaloniki, Greece
16. **10th International Conference on Nanosciences & Nanotechnologies – NN13**
9-12/07/2013, Thessaloniki, Greece
17. **7th International Symposium on Flexible Organic Electronics (ISFOE14)**
7-10/07/2014, Thessaloniki, Greece
18. **8th International Symposium on Flexible Organic Electronics (ISFOE15)**
6-9/07/2015, Thessaloniki, Greece
19. **12th International Conference on Nanosciences & Nanotechnologies (NN15)**
7-10/07/2015, Thessaloniki, Greece
20. **9th International Symposium on Flexible Organic Electronics (ISFOE16)**
4-7/07/2016, Thessaloniki, Greece
21. **13th International Conference on Nanosciences & Nanotechnologies (NN16)**
5-8/07/2016, Thessaloniki, Greece
22. **10th International Symposium on Flexible Organic Electronics – ISFOE17, Thessaloniki, Greece, 3-6/07/2017**
23. **E-MRS 2018 Spring Meeting 2018 Symposium H “Charge transport in organic semiconductors: influence of processing and doping”, 18-22 June 2018 Strasburg, France**
24. **11th International Symposium on Flexible Organic Electronics – ISFOE18, Thessaloniki, Greece, 2-5/07/2018**
25. **12th International Symposium on Flexible Organic Electronics (ISFOE19), 1-4 July 2019, Thessaloniki, Greece**
26. **13th International Symposium on Flexible Organic Electronics (ISFOE20), 6-9 July 2020, Thessaloniki, Greece**

Annex 10: Teaching Experience

Type	Thematic Subject	Academic Year
Class	“Science of Thin Films and Surfaces” PostGraduate program “Nanosciences & Nanotechnologies”, Aristotle University of Thessaloniki, Greece	2005 – 2008
Class	“Micro- and Nano-process technologies” PostGraduate program “Nanosciences & Nanotechnologies”, Aristotle University of Thessaloniki, Greece	2005 – now
Class	“Optical Techniques and Crystallography” PostGraduate program “Nanosciences & Nanotechnologies”, Aristotle University of Thessaloniki, Greece	2008 – now
Class	“Thin Film and Surface Treatment Technology” PostGraduate program “Nanosciences & Nanotechnologies”, Aristotle University of Thessaloniki, Greece	2005 – now
Lab Course	Laboratory for Electric Circuits Physics Department, Aristotle University of Thessaloniki, Greece	2015 - now
Lecture	“Flexible Electronic Devices: Basic Principles, Processes and Applications” , 3 rd International Workshop and Summer School on Nanosciences & Nanotechnologies - NN06, 10-21 July 2006, Thessaloniki, Greece	July 2006
Lecture	“Optical Techniques, Ellipsometry, Flexible Electronic Devices” 4 th International Workshop and Summer School on Nanosciences & Nanotechnologies - NN07, 10-21 July 2007, Thessaloniki, Greece	July 2007
Lecture	“Optical Properties of Materials” 5 th International Conference and Summer School on Nanosciences & Nanotechnologies - NN08, 12-18 July 2008, Thessaloniki, Greece	July 2008
Lecture	“Implementation of optical characterization for Flexible Organic Electronics applications” 3 th International Summer Schools on Nanosciences & Nanotechnologies (ISSON 09) 11-17 July 2009 Thessaloniki, Greece	July 2009
Lecture	“In-situ & real-time Spectroscopic Ellipsometry for the study of state-of-the-art materials for Flexible Organic Electronics applications” 2 nd NanoCharM European School on Ellipsometry, Fundamentals and Applications in Nanoscience & Nanotechnology, 30 Aug.-3 Sept. 2009, Belgrade, Serbia	September 2009
Lecture	“Optical characterization for Flexible Organic Electronic Applications” 4 th International Summer schools on Nanosciences & Nanotechnologies (ISSON 10) 10-17 July 2010 Thessaloniki, Greece	July 2010
Lecture	“Optical characterization for Flexible Organic Electronic Applications” 5 th International Summer schools on Nanosciences & Nanotechnologies (ISSON 11), 9-16 July 2011 Thessaloniki, Greece	July 2011
Lecture	“Optimization of nanomaterials & r2r processes for OPV fabrication” 6 th International Summer schools on Nanosciences & Nanotechnologies (ISSON 12), 30 June-7 July 2012 Thessaloniki, Greece	July 2012
Lecture	“Optimization of nanomaterials & r2r processes for OPV fabrication” 6 th International Summer schools on Nanosciences & Nanotechnologies (ISSON 12), 30 June-7 July 2012 Thessaloniki, Greece	July 2018

Annex 11: Awards and Scholarships

- 2006 Scholarship of excellence for Post-Doctoral Researcher 2006, Research Committee, Aristotle University of Thessaloniki, in the framework of Scholarships of Excellence and Innovation (01/09/2006-31/12/2006)
- 2005 2nd Award for best oral presentation - European Materials Research Society Conference, E-MRS 2005
- 1995 Scholarship of the Greek Foundation for the Overall Performance in the Third Year of studies
- 1993 Scholarship of the Greek Foundation for the Overall Performance in the First Year of studies

Annex 12: Reviewer in International Scientific Journals

1. Surface & Coatings Technology, Elsevier Science, Amsterdam, The Netherlands
2. Thin Solid Films, Elsevier Science, Amsterdam, The Netherlands
3. Materials Science and Engineering B, Elsevier Science, Amsterdam, The Netherlands
4. Vacuum, Elsevier Science, Amsterdam, The Netherlands
5. Journal of Nanophotonics, SPIE
6. Physica Status Solidi, WILEY-VCH
7. Surface and Interface Analysis, WILEY-VCH
8. Journal of Optics & Laser Technology, Elsevier
9. European Physical Journal Applied Physics, EDP Sciences
10. Journal of Luminescence, Elsevier Science, Amsterdam, The Netherlands
11. Optical Materials, Elsevier Science, Amsterdam, The Netherlands
12. Journal of Nanotechnology, Beilstein
13. Applied Surface Science, Elsevier Science, Amsterdam, The Netherlands

Annex 13: Participation in international Organizations for development of novel scientific subjects

1. Member of Management Committee of the EU COST Action CA15114 "Anti-Microbial Coating Innovations to prevent infectious diseases (AMICI)"
2. Member of Management Committee of the EU COST Action CA15107 "Multi-Functional Nano-Carbon Composite Materials Network (MultiComp)
3. Member of European Technology Platform Photonics21 – Working Group 4
4. Member of European Materials Research Society (E-MRS)
5. Member of Materials Research Society (MRS)
6. Member of Greek Physicists Association
7. Member of Plastic Electronics Foundation
8. Member of Organic Electronics Association

Annex 14: Services to European Commission

1. Vice-Chair in the Call H2020-FETOPEN (2014-2020)
2. Expert in the following Calls:
 - a. Call FP7-NMP-2013-SMALL-7: NMP - Nanoscience, Nanotechnologies, Materials and New production Technologies
 - b. Call H2020 WIDESPREAD-1: Work Programme 2014-2015 - Spreading Excellence and Widening Participation
 - c. Call H2020 WIDESPREAD-2: Work Programme 2014-2015 - Spreading Excellence and Widening Participation – ERA Chairs
3. Ethics Expert for the European Commission for
 - a. Call H2020-MSCA-IF-2017
 - b. Call H2020-MSCA-ITN-2018
 - c. Call H2020-MSCA-IF-2018
4. Expert for the COST action proposals (2016-2018)
5. Reviewer in the following EU Projects:
 - FP7 REGPOT Project “Centre of Excellence for the Design of Efficient and Safe Aircraft” (CEDESA)
EU Call FP7-REGPOT-2010-1: Research Potential of Convergence Regions, Grant Agreement: 264084)
 - FP7 - CT-REGPOT-2011-1-285912: Unlocking and Boosting Research Potential for Photonics in Latvia – Towards Effective Integration in the European Research Area (FOTONIKA- LV)
EU Call REGPOT-2011-1, Grant agreement: 285912
 - EU FP7 Project “Fostering Excellence in Photonics and Quantum Science” (PhoQuS@UW)
EU Call: FP7 - REGPOT-2012-2013-1, Grant Agreement: 316244
 - EU H2020 Project SupraChem Lab (Project no.667387)
EU Horizon 2020 WIDESPREAD 2-2014: ERA Chairs
 - EU H2020 Project “High-performance, Flexible, AUTonomous Systems manufactured with Unique, Industrial ROLL-to-roll equipments” (ROLL-OUT)
EU Call ICT-2014-1 - ICT-03-2014: Advanced Thin, Organic and Large Area Electronics (TOLAE) technologies:
Grant Agreement: 644631
 - H2020-TWINN-2015 ORZEL
 - H2020-TWINN-2015 TwinPV
 - H2020-TWINN-2015 Materials Networking

Annex 15: Participation in European Network Actions

- Member of the Management Committee of the European Action EU COST Action CA15114 “Anti-Microbial Coating Innovations to prevent infectious diseases (AMICI)”
- Member of the Management Committee of the EU COST Action CA15107 “Multi-Functional Nano-Carbon Composite Materials Network (MultiComp)”
- Member of the European Materials Characterization Cluster (EMCC), Working Group 1