



GÎRTAN Mihaela Atena
Date of Birth: March 1970
Associate Professor, Hab. HDR
Angers University, France
Physics Department/ Photonics
Laboratory

2, Bd. Lavoisier, 49045 Angers, France
Tel. (+33) 02 41 73 53 59,
e-mail: mihaela.girtan@univ-angers.fr,
<http://sites.google.com/view/mihaelagirtan>
<http://www.univ-angers.fr>

Principal Areas of research and expertise

The research interests of Ass. Prof. Mihaela Girtan cover several aspects of thin films, physical and chemical deposition methods, solar cell technology and optoelectronic devices, including charge transport in oxides and conducting polymers, electrical conductivity and photoconductivity measurements, organic and hybrid solar cells, organic transistors, transparent conducting thin films, structural, morphological, electrical and optical properties of thin films, plasmonics, transport phenomena in low dimensional structures, heat transfer phenomena and fluid dynamics numerical simulations.

Education

- 2009 - Habilitation in Thin films for solar cells and plastic electronics. Devices, Angers University
- 2003-2004 - Postdoctoral Research Fellow, LPMI, ENSAM Engineering School, Angers
- 2001 - Postdoctoral Research Fellow (six month) LPLE, CNRS, Pierre and Marie Curie University, Paris VI
- 2000 - Ph.D. Condensed Matter Physics "A.I.Cuza" University of Iasi

Employment and professional experience

- Since 2005 - Associate Professor at Angers University, France
- Since 2006 - Head of the group "Thin films for photovoltaic applications"
- 2004-2005 - Temporally Attached Professor at ENSAM Engineering School, Angers, France
- 1995-2005 - Assistant Professor then Lecturer at "A.I.Cuza" University of Iasi, Romania

- 2014 - Visiting Associate Professor (Research) 25 Oct. - 01Nov. University of Athens
- 2014 - Visiting Associate Professor (Research), 3-9 Mar., University College Dublin
- 2013 - Visiting Associate Professor (Research), 19-30 Oct., University of Athens
- 2012 - Visiting Associate Professor (Research), 14-27Aug., National Hellenic Foundation, Athens
- 2010 - Visiting Associate Professor (Research) 27 Jul. – 15 Aug., National Institute of Materials Physics, Bucharest
- 2010 - Visiting Associate Professor (Research) 25-29 Oct., Limoges University
- 2009 - Visiting Associate Professor (Research) 30 Jul. – 30 Aug., National Institute of Materials Physics, Bucharest
- 2009 - Visiting Associate Professor (Teaching) July 2009, Technical University Athens
- 1999 - Visiting Research Fellow (1 month) ENSAM Engineering School, Angers

Publications and dissemination

Author of more than 90 peer-reviewed publications in the materials and energy materials area since 2000 published in : Solar Energy Materials and Solar Cells, Materials Today, Thin solid films, Applied Surface Science, Surface Coatings and Technology, Synthetic Metals etc.. (90 articles recorded in Scopus and ISI Web Thomson data base) H=23, 1539 citations (aug 2020), among the Journals citing the author we mention: Journal of the Am. Chem. Soc., Energy and Environment Science, Chem. of Mat., Organic Electronics, Appl. Phys. Lett., Sol. Eng. & Sol. Cells etc). Individual impact factor calculated from ISI Web of Knowledge more than 20; individual influence global factor calculated from ISI Web of Knowledge: more than 50 (for the first 6 the most cited articles) author of one book and of two books chapters, more than 100 presentations in international conferences (24 invited).

Author of the book: *Future Solar Energy Devices*, Springer, 2018

Invited Talks

- 2020 - Plenary Talk, Moderns Technologies, Eforie Nord, Romania
- 2018 - Invited seminar, Dublin Institute of Technology
- 2018 - Invited talk, 20-th International Conference-School Advanced Materials and Technologies, Palanga, Lithuania
- 2018 - Invited seminar, Angstrom Laboratory, Uppsala University, Sweden
- 2018 - Invited seminar, Trinity College Dublin, Ireland
- 2018 - Invited seminar, INSA, Rennes
- 2018 - Invited lecture, Training School Solutions for critical raw materials, Sofia, Bulgaria
- 2018 - Invited talk, EMRS, Warsaw, Poland
- 2017 - Invited talk, ROCAM – International conference, July, Bucharest
- 2016 - Invited seminar Vilnius University
- 2016 - Invited talk, PAMS-2 International Conference, Cluj-Napoca
- 2015 - Invited talk International Summer School on Materials for Energy Conversion, Bucharest
- 2015 - Invited talk, “Lights of the World”, event organized by UNESCO, Bucharest
- 2015 - Invited talk International Summer School on Materials for Energy Conversion, Bucharest
- 2014 - Invited seminar (5 March 2014) Physics department, University College Dublin
- 2013 - Invited talk (12 July 2013) Department of Chemistry, University of Athens
- 2012 - Invited lecture, Advanced Workshop on Solar Energy Conversion, 21-23 May, 2012, Bucharest
- 2012 - Invited talk (29 October 2012), National Hellenic Research Foundation, Athens
- 2010 - Invited lecture, ISAOP 28 Sept-2Oct. 2010, Tokyo, Japan
- 2010 - Invited seminar (30 July 2010) National Institute of Materials Physics, Bucharest
- 2010 - Invited seminar (17 June 2010) XLIM, Limoges, France
- 2010 - Invited seminar (24 April 2010) Institute Charles Sadron, France
- 2009 - Invited lecture, ISAOP 3-4 Sept, Shanon, Ireland

Projects & Grants

12 project proposals as PI and 5 as co-PI since 2003, on the total of these 17, 10 were funding; between these we would like to mention: Co-PI in ANR - OxTiMIBPhotobat. (2007-2009); Co-PI in the European Project FP6 – ORGAPVNET (2006-2009); PERLE 1 (2006-2009), PERLE 2 (2010-2013), Co-PI in the European Project ERA-RUS-NET (2012-2013), PI of one national project and Co-PI of three PHC bilateral cooperation projects: PHC Brancusi (2015-2016), PHC Platon (2013-2014), PHC Brancusi (2009-2010), PHC Ulysses – Ireland (2018), TOR – Sweden (2018)

Academic activities:

Advising and co-advising of: 5 post-doc, 16 PhD students, 8 students in Master II and 15 students in Master I, since 2006

Member of: PhD defence commissions (12 PhD thesis),

Member of: scientific societies (ACS, EPS and EMRS)

Industrial Exploitation /Intellectual Property: Conception and realization of an equipment for thin films deposition by *pyrosol*, ENSAM, Angers (2005), commercialised by AnnealSys

Professional activities and honours: chair of ISAOP 2010, member of comities of some scientific national and international conferences (ISAOP Angers 2007, FTM Iasi 2002, PNC Iasi 2001)

Reviewer for scientific journals: Thin Solid Films, Materials Science and Engineering B, Solar Energy Materials and Solar Cells, Applied Surface Science, Journal of thermal Spray, Materials Science in Semiconductor Processing, Journal of Materials Science, Applied Physics A, Materials Chemistry and Physics

Member of: the Board of the Faculty of Science - University of Angers since 2009

Member of: AUF Commission expertise

Member of scientific networks: ORGAPVNET, NANORGASOL, ATLANSUN

Head of: the Professional Training “Energy demand management and renewable energy” since 2006

Head of: the Research group “Thin films for photovoltaic applications” - LPHIA, since 2006

Coordinator of: the ERASMUS Program FR-RO «Solar cells and plasma applications in surface science» since 2008

Associate member of: the Academy of Science, Belle-Letters and Arts, Angers

Awards: Outstanding Reviewer for Thin Solid Films

Chairperson: ISAOP (2010), ROCAM (2015), EMRS (2016)

Selected papers:

1. M.Girtan, *Solar Energy*, 195, 1(2020) 446-453 (IF 4.67)
2. M. Girtan, *Future Solar Energy Devices*, ISBN 978-3-319-67337-0 , Springer (2018)
3. M.Girtan, *Solar Energy Materials & Solar Cells* 160 (2017) 430–434 (IF. 6.98)
4. M.Girtan, *Materials Today* 17, 3 (2014) 101 (IF* 26.41)
5. M.Girtan, *Organic Electronics*, 14 (1), (2013) p. 200 – 205 (IF. 4.051)
6. M.Girtan, *Solar Energy Materials and Solar Cells* 100 (2012) 153 – 161 (IF. 6.98)
7. M.Girtan, M.Rusu, *Solar Energy Materials and Solar Cells*, 94, Issue 3 (2010) 446 (IF. 6.98)
8. M.Girtan, M. Socol, B. Pattier, M. Sylla, A. Stanculescu, *Thin Solid Films*, 519 (2), (2010) 573 (IF.1.93)
9. M.Girtan, S. Dabos-Seignon, G.G. Rusu, M.Rusu, *Applied Surface Science*, 254, 13 (2008) 4179 (IF. 5.27)
10. M.Girtan, G. Folcher, *Surface & Coatings Technology*, 172/2-3 (2003) p.240-248 (IF. 3.38)

*IF – Impact Factor from ISI Web of Knowledge

Publications : <https://sites.google.com/view/mihaelagirtan/publications>

Conferences : <https://sites.google.com/view/mihaelagirtan/conferences>

PUBLICATIONS (98)

1. **M. Girtan**, *On the electrical and photoelectrical properties of $CH_3NH_3PbI_3$ perovskites thin films*, Solar Energy 195, 1 (2020), pp. 446-453
2. **M. Girtan**, R. Mallet, M.Socol, A. Stanculescu, *On the Physical Properties PEDOT:PSS Thin Films*, Materials Today Communications 22 (2020) 100735
3. A. Stanculescu, C. Breazu, M. Socol, O.Rasoga, N. Preda, G. Petre, A.M. Solonaru, M. Grigoras F. Stanculescu, G. Socol, G. Popescu-Pelin, **M.Girtan**, *Effect of ITO electrode patterning on the properties of organic heterostructures based on non-fullerene acceptor prepared by MAPLE*, Applied Surface Science 509 (2020) 145351
4. L. Hrostea, L. Leontie, **M. Girtan**, *Characterization of PBDB-T-SF: fullerene blend thin films for solar cell applications*, Romanian Reports in Physics, 72, 2 (2020)
5. M. Lakhdari, F. Habelhames, B. Nessark, **M. Girtan**, H. Derbal-Habak, Y. Bonnassieux , D. Tondelier, J. M. Nunzi, *Effects of pulsed electrodeposition parameters on the properties of zinc oxide thin films to improve the photoelectrochemical and photoelectrodegradation efficiency*, Eur. Phys. J. Appl. Phys. 84, 30102 (2019)
6. M. Socol, N. Preda, C. Breazu, A. Stanculescu, A. Costas, F. Stanculescu, **M. Girtan**, F. Gherendi, G. Popescu- Pelin, G. Socol, *Flexible organic heterostructures obtained by MAPLE* , Applied Physics A (2018) 124:60
7. M. Socol, N. Preda, C. Breazu, C. Florica, A. Costas, C.M. Istrate, A. Stanculescu, **M. Girtan**, F. Gherendi, *Organic heterostructures obtained on ZnO/Ag/ZnO electrode*, Vacuum, 154 (2018) pp. 366-370
8. W. Saidi, N. Hfayedh, A. Megriche, **M. Girtan**, M. El Maaoui, *Hydrophilic/hydrophobic and optical properties of B2O3 doped TiO2 sol-gel thin films: Effect of B2O3 content, film thickness and surface roughness*, Materials Chemistry and Physics, 215 (2018) pp.31-39
9. C. Breazu, M. Socol, N. Preda, E. Matei, O. Rasoga, **M. Girtan**, R. Mallet, F. Stanculescu, A. Stanculescu, *On the properties of organic heterostructures prepared with nano-patterned metallic electrode*, Applied Surface Science, 443 (2018) 592-602
10. **M.Girtan**, *Future solar energy devices*, Proceedings of SPIE – The International Society for Optical Engineering 10683, 106831Z (2018)
11. L. Hrostea, **M. Girtan**, R. Mallet, L. Leontie, *Optical and Morphological Properties of P3HT and P3HT: PCBM Thin Films Used in Photovoltaic Applications*, IOP Conf. Series: Materials Science and Engineering 374 (2018) 012015
12. M. Socol, N. Preda, O. Rasoga, C. Breazu, I. Stavarache, F. Stanculescu, G. Socol, F. Gherendi, V. Grumezescu, G.Popescu-Pelin, **M. Girtan**, N. Stefan, *Flexible heterostructures based on metal phthalocyanines thin films obtained by MAPLE*, Applied Surface Science, 374 (2016), 403-410

13. A. Stanculescu, G. Socol, L. Vacareanu, M. Socol, O. Rasoga, C. Breazu, **M. Girtan**, F. Stanculescu, *MAPLE preparation and characterization of mixed arylenevinylene based oligomers:C60*, Applied Surface Science, 374, (2016), 278-289
14. **M. Girtan**, *Study of charge carriers' transport in organic solar cells by illumination area shifting*, Solar Energy Materials & Solar Cells 160 (2017) 430–434
15. **M. Girtan**, L. Hrostea, M. Boclinca , B. Negulescu , *Study of oxide/metal/oxide thin films for transparent electronics and solar cells applications by spectroscopic ellipsometry*, AIMS Materials Science, 4(3) (2017) 594-613
16. S. Antohe, S. Iftimie, L. Hrostea, V.A. Antohe, **M. Girtan**, *A Critical Review of Photovoltaic Cells Based on Organic Monomeric and Polymeric Thin Film Heterojunctions*, Thin Solid Films, 642 (2017) 219-231
17. L. Hrostea, M. Boclinca, M. Socol, L. Leontie, A. Stanculescu, **M. Girtan**, *Oxide/metal/oxide electrodes for solar cell applications*, Solar Energy, 146 (2017) 464–469
18. A. Stanculescu, O. Rasoga, M. Socol, L. Vacareanu, M. Grigoras, G. Socol, F. Stanculescu, C. Breazu, E. Matei, N. Preda, **M. Girtan**, *MAPLE prepared heterostructures with oligoazomethine: fullerene derivative mixed layer for photovoltaic applications*, Applied Surface Science, 417, (2017), 183-195
19. M. Socol, N. Preda, A. Stanculescu, C. Breazu, C. Florica, F. Stanculescu, S. Iftimie, **M. Girtan**, G. Popescu-Pelin, G. Socol, *Organic heterostructures deposited by MAPLE on AZO substrate*, Applied Surface Science, 417, (2017), 196-203
20. A. Aukštuolis, **M. Girtan**, G.A. Mousdis, R. Mallet, M. Socol, M.S. R., A. Stanculescu, *Measurement of Charge Carrier Mobility in Perovskite Nanowire Films by Photo-Celiv Method*, Romanian Academy Series A, 18, 1/(2017), pp. 34–41
21. C. Breazu, N. Preda, M. Socol, F. Stanculescu, E. Matei, I. Stavarache, G. Iordache, **M. Girtan**, O. Rasoga, A. Stanculescu, *Investigations on the properties of a two-dimensional nanopatterned metallic film*, Digest Journal of Nanomaterials and Biostructures Vol. 11, No. 4, (2016), 1213 – 1229
22. O. Maalej, J. Merigeon, B. Boulard, **M. Girtan**, *Visible to near-infrared down-shifting in Tm³⁺ doped fluoride glasses for solar cells efficiency enhancement*, Optical Materials, 60 (2016) 235–239
23. M. Socol, N. Preda, O. Rasoga, C. Breazu, I. Stavarache, F. Stanculescu, G. Socol, F. Gherendi, V. Grumezescu, G. Popescu-Pelin, **M. Girtan**, N. Stefan, *Flexible heterostructures based on metal phthalocyanines thin films obtained by MAPLE*, Applied Surface Science, 374 (2016), 403-410
24. A. Stanculescu, G. Socol, L. Vacareanu, M. Socol, O. Rasoga, C. Breazu, **M. Girtan**, F. Stanculescu, *MAPLE preparation and characterization of mixed arylenevinylene based oligomers:C60*, Applied Surface Science, 374, (2016), 278-289
25. P. Koralli, S. F. Varol, M. Kompitsas, **M. Girtan**, *Brightness of Blue/Violet Luminescent Nano-Crystalline AZO and IZO Thin Films with Effect of Layer Number: For High Optical Performance*, Chin. Phys. Lett. Vol. 33, No. 5 (2016) 056801
26. W. Saidi, N. Hfaïdh, **M. Girtan**, A. Megriche, M. El Maaoui, *Effect of B₂O₃ addition on optical and structural properties of TiO₂ as a new blocking layer for multiple dye sensitive solar cell application (DSSC)*, RSC Advances, (2016), 6, 68819-68826

27. J. Merigeon, O. Maalej, B. Boulard, A. Stanculescu, L. Leontie, D. Mardare, **M. Girtan**, *Studies on Pr³⁺–Yb³⁺ codoped ZBLA as rare earth down convertor glasses for solar cells encapsulation*, Optical Materials, 48, (2015) p.243-246
28. M. Socol, O. Rasoga, C. Breazu, G. Socol, N. Preda, I. Pasuk, D. Visan, I. Stavarache, F. Gherendi, **M Girtan**, U. Sidwaba, *Heterostructures based on small molecules organic compounds*, Digest Journal of Nanomaterials and Biostructures, in print 10 (4), (2015).
29. S. Iftimie, R. Mallet, J. Merigeon, L. Ion, **M. Girtan**, S. Antohe, *On the structural, morphological and optical properties of ITO, ZnO, ZnO:Al and NiO thin films obtained by thermal oxidation* Digest Journal of Nanomaterials and Biostructures, 10, 1, (2015) p.221-229
30. C. Adomnitei, S. Tascu, D. Luca, M. Dobromir, **M. Girtan**, D. Mardare, *Nb doped TiO₂ thin films as photocatalytic materials*, Bulletin of Materials Science Vol. 38, No. 5, (2015) p.1259-1262
31. **M. Girtan**, *Is photonics the new electronics?*, Materials Today, 17, Is. 3, (2014), p.100-101
32. O. Toma, L. Ion, **M. Girtan**, S. Antohe, *Optical, morphological and electrical studies of thermally vacuum evaporated CdTe thin films for photovoltaic applications*, Solar Energy, 108 (2014) p.51–60
33. **M. Girtan**, R. Mallet, *On the electrical properties of transparent electrodes*, Proceedings of the Romanian Academy, Series A, Vol.15, No. 2 (2014), p.146–150
34. R. Danac, L. Leontie, **M. Girtan**, M. Prelipceanu, A. Graur, A. Carlescu, G.I. Rusu *On the direct current electric conductivity and conduction mechanism of some stable disubstituted 4-(4-pyridyl)pyridinium ylides in thin films* Thin Solid Films, 556 (2014) p.216-222
35. L. Leontie, I. Evtodiev, N. Spalatu, M. Caraman, S. Evtodiev, O. Racovet, **M. Girtan**, C. Focsa *Optical and photosensitive properties of lamellar nanocomposites obtained by Cd intercalation of GaTe* Journal of Alloys and Compounds, 584 (2014) p.542-545
36. **M. Girtan** *On the stability of the electrical and photoelectrical properties of P3HT and P3HT:PCBM blends thin films* Organic Electronics, 14 (1), (2013) p.200-205
37. **M. Girtan**, A. Vlad, R. Mallet, M.A. Bodea, J.D. Pedarnig, A. Stanculescu, D. Mardare, L. Leontie, S. Antohe *On the properties of aluminium doped zinc oxide thin films deposited on plastic substrates from ceramic targets* Applied Surface Science, 274 (2013) p.306-313
38. Antohe, L. Ion, **M. Girtan**, O. Toma *Optical and Morphological Studies of Thermally Vacuum Evaporated ZnSe Thin Films* Romanian Reports in Physics, 65, 3 (2013) p.805-811
39. C. Adomnitei, D. Luca, **M. Girtan**, I. Sandu, V. Nica, A.V. Sandu, D. Mardare *Nb-doped TiO₂ thin films deposited by spray pyrolysis method* Journal of Optoelectronics and Advanced Materials, Vol.15, 5-6, (2013) p.519-522
40. A.V. Manole, M. Dobromir, **M. Girtan**, R. Mallet, G. Rusu, D. Luca *Optical properties of Nb-doped TiO₂ thin films prepared by sol-gel method* Ceramics International, 39(5) (2013) p.4771-4776
41. **M.Girtan**, *Comparison of ITO/metal/ITO and ZnO/metal/ZnO Characteristics as Transparent Electrodes for Third Generation Solar Cells* Solar Energy Mat. & Solar Cells 100 (2012) p.153-161

42. I. Vaiciulis, **M. Girtan**, A. Stanculescu, L. Leontie, F. Habelhames, S. Antohe, *On titanium oxide spray deposited thin films for solar cells applications* Proceedings of the Romanian Academy, Series A, 13,4/2012, p.335 -342
43. F. Stanculescu, Anca Stanculescu, **M. Girtan**, Marcela Socol, Oana Rasoga, *Effect of the morphology on the optical and electrical properties of polycarbonate film doped with aniline derivatives monomers*, Synthetic Metals, 161 (23-24) (2012) p.2589 – 2597
44. D. Mardare, A. Yildiz, **M. Girtan**, A. Manole, M. Dobromir, M. Irimia, C. Adomnitei, N. Cornei, D. Luca *Surface Wettability of Titania Thin Films with Increasing Nb Content* Journal of Applied Physics, 112 Is. 7, art. no. 073502 (2012)
45. L. Leontie, R. Danac, **M. Girtan**, A. Carlescu, A. P. Rambu, Gh. I. Rusu *Electron transport properties of some new 4-tert-butylcalix[4]arene derivatives in thin films* Materials Chemistry and Physics, 135 (1), (2012) p.123-129
46. M. Soyly, **M. Girtan**, F. Yakuphanoglu *Properties of PEDOT:PEG/ZnO/p-Si heterojunction diode* Materials Science and Engineering B, 177, 11 (2012) p.785-790
47. F. Habelhames, **M. Girtan**, A. Manole, L. Lamiri, Z. Wided, N. Belkacem *Enhancement of photoelectrochemical and optical characteristics using a TiO₂ nanoparticles interlayer in MEH-PPV heterojunction devices* Technical Proceedings of the 2012 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2012 , pp. 420-423
48. S. Iftimie, A. Radu, M. Radu, C. Besleaga, I. Pana, S. Craciun, **M. Girtan**, L. Ion, S. Antohe, *Influence of PEDOT:PSS layer on the performances of "bulk-heterojunction" photovoltaic cells based on MEH-PPV:PCBM(1:4) polymeric blends*, Digest Journal of Nanomaterials and Biostructures, 6, Is. 4, (2011), p.1631-1638
49. A. Stanculescu, M. Socol, G. Socol, I. N. Mihailescu, F. Stanculescu, **M. Girtan** *Maple Prepared Organic Heterostructures for Photovoltaic Applications*, Applied Physics A-Materials Science & Processing 104 (3) (2011) p.921-928
50. A. Stanculescu, L. Vacareanu, M. Grigoras, M. Socol, G. Socol, F. Stanculescu, N. Preda, E. Matei, I. Ionita, **M. Girtan**, I. N. Mihailescu *Thin Films of Arylenevinylene Oligomers Prepared by Maple for Applications in Non-Linear Optics*, Applied Surface Science 257 (2011) p.5298-5302
51. A. Radu, S. Iftimie, V. Ghenescu, C. besleaga, V.A. Antohe, G. Bratina, L. Ion, S. Craciun, **M. Girtan**, S. Antohe *The influence of LiF layer and ZnO nanoparticles additions on the performances of flexible photovoltaic cells based on polymer blends*, Digest Journal of Nanomaterials and Biostructures, Vol 6, no 3 (2011) p.1141-1148
52. F-Z. Ghomrani, S. Iftimie, N. Gabouze, A. Serier, M. Socol, A. Stanculescu, F. Sanchez, S. Antohe, **M. Girtan** *Influence of Al Doping Agents Nature on the Physical Properties of Al:ZnO Films Deposited by Spin-Coating Technique* Optoelectronics and Advanced Materials – R. Comm. Vol 5. Is.3 (2011) p.247-251
53. A. Stanculescu, M. Socol, G. Socol, I.N. Mihailescu, **M. Girtan**, N. Preda, A.-M. Albu, F. Stanculescu, *Effect of maleic anhydride-aniline derivative buffer layer on the properties of flexible substrate heterostructures: Indium tin oxide/nucleic acid base/metal*, Thin Solid Films, 520 (4) (2011) p.1251-1258

54. **M. Girtan**, M. Rusu *Role of ITO and PEDOT:PSS in Stability/Degradation of Polymer : Fullerene Bulk Heterojunctions Solar Cells* Solar Energy Materials and Solar Cells 94 (3) (2010) p.446 – 450
55. **M. Girtan**, M. Socol, B. Pattier, M. Sylla, A. Stanculescu *On the Structural, Morphological, Optical and Electrical properties of Sol-Gel Deposited ZnO:In Films* Thin Solid Films 519 (2),(2010) p.573-577
56. F. Habelhames, B. Nessark, **M. Girtan**, *Electrosynthesis of organic-inorganic compounds (p-n heterojunction)* Materials Science in Semiconductor Processing 13 (2010) p.141-146
57. A. Stanculescu, A. M. Albu, G. Socol, F. Stanculescu, M. Socol, N. Preda, O. Rasoga, **M. Girtan**, I. Iulian *MAPLE deposited thin monomer films of maleimidic derivatives for photonics* Journal of Optoelectronics and Advanced Materials, 12 (3) (2010) p.731-736
58. M. Socol, O. Rasoga, F. Stanculescu, **M. Girtan**, A. Stanculescu, *Effect of the morphology on the optical and electrical properties of TPyP thin films deposited by vacuum evaporation*, Optoelectronics and Advanced Materials – R. Comm., 4, (12), (2010), p.2032-2038
59. **A. Taouri**, H. Derbal, R. Mountasser, **M. Girtan**, A. Stanculescu, **M. Sylla** *Study of multiphoton absorption processes in a perylenediimide derivative using thermal lensing technique* Optoelectronics and Advanced Materials – R. Comm., 4 (1), (2010) p.83-85
60. **M. Girtan**, M. Kompitsas, R. Mallet, I. Fasaki *On Physical Properties of Undoped and Al and In Doped Zinc Oxide Films Deposited on PET Substrates by Reactive Pulsed Laser Deposition* European Physical Journal - Applied Physics 51, 3, (2010) art.no. 33212
61. D. Mardare, F. Iacomi, N. Cornei, **M. Girtan**, D. Luca *Undoped and Cr-Doped TiO₂ Thin Films Obtained by Spray Pyrolysis* Thin Solid Films 518 (2010) p.4586-458
62. **M. Girtan**, R. Mallet, D. Caillou, G. G. Rusu, M. Rusu, *Thermal stability of poly(3,4-ethylenedioxythiophene)-polystyrenesulfonic acid films electrical properties*, Superlattices and Microstructures, 46 (1-2), (2009) p.44-51
63. N. Iftimie, D. Luca, F. Iacomi, **M. Girtan**, D. Mardare *Gas sensing materials based on TiO₂ thin films* Journal of Vacuum Science and Technology B 27 (1) (2009) p.538-541
64. **M. Girtan**, S. Dabos-Seignon, A. Stanculescu *On morphological, structural and electrical properties of vacuum deposited pentacene thin films*, Vacuum 83 (9), (2009) p.1159-1163
65. Bruno Pattier, M. Henderson, A. Kassiba, **M. Girtan**, A. Gibaud *EPR and SAXS studies of a TiO₂-based gel* 2009 3rd ICTON Mediterranean Winter Conference, art. no. 5385592
66. Farid HabElhames, B. Nessark, **M. Girtan**, L. Guerbouz, *Optical and photo-electrochemical characterization of organic-inorganic photosensitive materials*, 2009 3rd ICTON Mediterranean Winter Conference, art. no. 5385533
67. **M. Girtan**, S. Dabos-Seignon, G.G. Rusu, M. Rusu *Structural and electrical properties of zinc oxide thin films prepared by thermal oxidation* Applied Surface Science, 254, 13 (2008) p.4179-4185
68. M. Rusu, G.G. Rusu, **M. Girtan**, S. Dabos Seignon *Structural and optical properties of ZnO thin films deposited onto ITO/glass substrates* Journal of Non-Crystalline Solids 354 (2008) p.4461–4464

69. G.G. Rusu, **M. Girtan**, M.Rusu *Preparation and characterization of ZnO thin films prepared by thermal oxidation of Zn thin films* Superlattices and Microstructures 42 (2007) p.116-122
70. G.G. Rusu, M.Rusu, **M. Girtan**, *Optical characterization of vacuum evaporated CdZnTe thin films deposited by a multilayer method* Vacuum, 81 (2007) p.1476-1479
71. D. Chapron, **M. Girtan**, J. Y. Le Pommelec, A. Bouteville *Droplet dispersion calculations for ultrasonic spray pyrolysis depositions* J. of Optoelect. and Adv. Mat., Vol.9. No.4 (2007) p.902-906
72. **M. Girtan**, A. Bouteville, G.G.Rusu, M. Rusu *F Dopped SnO2 Thin Films Properties* Journal of Optoelectronics and Advanced Materials, Vol.8. No1 (2006) 27-30
73. **M. Girtan**, P.O. Logerais, A. Bouteville, *Substrate Thermal Profiles in Spray CVD Reactors* Journal of Optoelectronics and Advanced Materials, Vol.8. No1 (2006) p.144-147
74. P.O. Logerais, **M. Girtan**, A. Bouteville *Influence of the Quartz Window in a Rapid Thermal Chemical Vapour Deposition Apparatus* Journal of Optoelectronics and Advanced Materials, Vol.8. No. 1 (2006) p.139-143
75. **M. Girtan**, *Investigations on the optical constants of indium oxide thin films prepared by ultrasonic spray pyrolysis*, Materials Science and Engineering B, 118, Is 1-3 (2005) p.175-178
76. D. Mardare, G.I. Rusu, F. Iacomi, **M. Girtan**, and I. Vida-Simiti *Chromium-doped titanium oxide thin films*, Materials Science and Engineering B, 118, Is 1-3, (2005) p.187-191
77. **M. Girtan**, P-O. Logerais, L. Avril, A. Bouteville, F. Gonzatti *Thermal profile evaluation of a silicon wafer in a rapid thermal chemical vapour deposition apparatus*, Journal of Optoelectronics and Advanced Materials, Vol.7. No2 (2005) p.665-670
78. **M. Girtan**, P-O. Logerais, A.Bouteville *Study on the possibility of modeling the physical processes involved in spray CVD* Electrochemical Society Proceedings Volume 2005-09 p.181-187
79. P-O. Logerais, **M. Girtan**, A.Bouteville *RTLPCVD modelling: steady -state or transient simulations?* Electrochemical Society Proceedings Volume 2005-09 p.49-57
80. G.G.Rusu, C.Baban, **M. Girtan**, M. Rusu, P. Prepelita, G.I.Rusu *Preparation and Characterization of Some Transparent Conducting Oxides in Thin Films* Proc. 4th International Conference on global Research and Education, Sept. 19th - 22nd 2005, Wupertal, Germany, 2005, Vol I, p. 429
81. **M. Girtan**, *The influence of post-annealing treatment on the electrical properties of In₂O₃ thin films prepared by an ultrasonic spray CVD process*, Surface & Coatings Techn., 184 (2004) p.219-224
82. G.G.Rusu, A. Stanciu, **M. Girtan**, M. Vasiloschi, G.I.Rusu *On the electronic transport and optical properties of some Poly(Azomethine Urethane) in thin films* Journal of Macomolecular Sci. Phys Vol.B 43, No.6, (2004) p.1123-1141
83. **M. Girtan**, G. Folcher *Structural and optical properties of indium oxide thin films prepared by an ultrasonic spray CVD process* Surface & Coatings Technology, 172/2-3 (2003) p.240-248

84. **M. Girtan**, H. Cachet, G.I. Rusu *On the physical properties of indium oxide thin films prepared by pyrolysis in comparison with films deposited by pneumatic spray pyrolysis* Thin Solid Films 427/1-2 (2003) p.406-410
85. **M. Girtan**, G.I. Rusu *Influence of deposition conditions on the electrical and optical properties of SnO₂ films prepared by pyrolytic decomposition method* Proceedings of Fifth General Conference of the Balkan Physical Union, BPU-5, August 25-29, 2003, Vrnjacka Banja, Serbia & Montenegro, p.873-877
86. **M. Girtan**, A. Ionel, G. I. Rusu *Studies on the mechanism of electrical conduction and structural properties of In₂O₃ thin films deposited by spray pyrolysis* Proceeding International Conference of Advanced Materials and Structures, Timisoara, 19-21 sept 2002, p.167-170
87. **M. Girtan**, G.I. Rusu *On the thickness dependence of the electrical conductivity and energy gap in semiconducting thin films*, Physics of Low Dimensional Structures, 3/4 (2002) p.117-126
88. **M. Girtan**, A. Pui, E. Indrea, M. Tasca, N. Apetroaie *Investigations on surface free energy of indium oxide thin films* Acta Technica Napocensis, 45 (2002) p.85-89
89. **M. Girtan**, G.I. Rusu, G.G. Rusu *The influence of preparation conditions on the electrical and optical properties of oxidized indium thin films* Materials Science & Eng. B 76 (2000) p.156-160
90. **M. Girtan**, G.I. Rusu, G.G. Rusu, S. Gurlui *Influence of oxidation conditions on the properties of indium oxide thin films* Applied Surface Science, 162-163, (2000) p.490-496
91. M. Rusu, A. Stanciu, V. Bulacovschi, G.G. Rusu, **M. Girtan** (Bucescu), G.I. Rusu *Temperature Dependence of the Electrical Conductivity and Seebeck Coefficient of New Poly(ester-siloxane)urethane Elastomers in Thin Films* Thin Solid Films 326 (1998) p.256-262
92. F. Iacomi, A. Vasile, **M. Girtan** (Bucescu), *Electrical Conductivity of some Silica -Rich Zeolites* Revue Roumain de Chimie, 43 11 (1998) p.1021-1026

**

93. **M. Girtan**, *Cellules solaires et dispositifs photoniques*, Bulletin November 2017, Academie de Sciences, Belle-Letters et Art, Angers
94. **M. Girtan**, G.I. Rusu *On the size effect in In₂O₃ thin films* Analele stiintifice Univ. "Al. I. Cuza" Iasi, Tomul XLV-XLVI, 1999-2001, p.166-172
95. **M. Girtan**, *Comparative studies of transparent semiconducting oxide properties* Analele stiintifice Univ. "Al. I. Cuza" Iasi, Tomul XLVIII-s,(2002), p.121-131
96. **M. Girtan**, G.I. Rusu, G.G. Rusu *The influence of thickness on the optoelectronic properties of indium oxide thin films* Analele stiintifice Univ. "Al. I. Cuza" Iasi Tom XXXVIII, S. I. b, Fizică 2001 p.163-169
97. G.I. Rusu, L.Leontie, G.G. Rusu, **M. Girtan**, I. Salaoru *On the electronic transport properties of oxidized bismuth thin films* Analele stiintifice Univ. "Al. I. Cuza" Iasi, Tomul XLV-XLVI, 1999-2001, p.104-112
98. G. I. Rusu, G. G. Rusu, L. Leontie, **M. Girtan** (Bucescu) *Electrical and Optical Properties of Bi₂O₃ Thin Films* Analele Stiintifice Univ. "Al. I. Cuza" Iasi Tom XXXVIII, S. I. b, Fizică,.

BOOKS (3)

1. **M. Girtan**, *Future Solar Energy Devices*, ISBN 978-3-319-67337-0 , Springer (2018), 102 pages
2. J. Hladik, **M. Girtan**, H. Adam, J. L. Guignard, et al. *Les énergies renouvelables aujourd'hui et demain*, Ellipses, ISBN-10: 2729864482, ISBN-13: 978-2729864484, (2011) 520 pages
3. Felicia Iacomi, Diana Mardare, **M. Girtan**, *FIZICĂ GENERALĂ - Lucrări de laborator. Întrebări. Probleme* Editura Gama, Iasi, 1997, ISBN 973-97937-9-7

INVITED TALKS (24)

1. M.Girtan, Plenary talk, Invited lecture, The 8th International Conference on Modern Manufacturing Technologies in Industrial Engineering, Modtech, Eforie Nord 23-27 June 2020
2. M. Girtan, *Future solar energy devices*, 20-th International Conference-School Advanced Materials and Technologies, August 27-31, 2018, Palanga, Lithuania, Invited lecture, Chair person
3. M. Girtan, L. Hrostea, B. Negulescu, *Ellipsometric modelling in the optimization of thin films fabrication processes*, Invited lecture, Training School 6-8 February 2018, Sofia, Invited lecture
4. M. Girtan , B. Negulescu, L. Hrostea , M. Boclinca , *Reduction and replacement of critical raw material used for transparent electrodes in flat screens, transparent electronics and solar cells*, EMRS-fall Meeting, 18-21 September 2017, Warsaw, Invited lecture
5. M. Girtan, *Solar cells and photonic devices*, Invited talk, ROCAM, 11-14 July, 2017, Bucharest, Invited lecture, Chair person
6. M. Girtan, *Electronics and photonics towards plasmonics and new solar energy devices*, PAMS-2, Cluj-Napoca, 8-14 Sept. 2016, Invited lecture
7. M. Girtan, *Electronics and photonics towards plasmonics and new solar energy devices*, International Year of Light 2015, 70th anniversary of UNESCO, "Lights of the World" Bucharest, 30 Oct. - 1 Nov. 2015, Invited lecture, Chair person
8. M. Girtan, *On the Electrical and Photoelectrical Properties of Conducting Polymers for Organic Solar Cells*, International Summer School on Materials for Energy Conversion, 6-11 July, 2015, Bucharest, Romania, Invited lectures
9. M. Girtan, *Trends in the new generation solar cells research*, ROCAM, 7-10 July 2015, Bucharest, Romania, Invited lecture, Chair person
10. M. Girtan *Electronics and Photonics: Two Sciences in the Benefit of Solar Energy Conversion* Advanced Workshop on Solar Energy Conversion, 21-23 May, 2012, Bucharest Invited lecture

11. M. Girtan *The Role and the Properties of Organic and Inorganic Transparent Conducting Films for Organic and Hybrid Solar Cells* 10th International Symposium on Advanced Organic Photonics, 1st International Symposium in Super-hybrid Materials, 28th Sept. - 2nd Oct. 2010, Tokyo, Japan, Invited lecture, Chair person
12. M. Girtan *Transparent conductors for organic electronics applications* Japan-Europe Joint Workshop - The 9th International Symposium on Advanced Organic Photonic, ISAOP-9, 3rd and 4th Sept. 2009, Bunratty, Shannon, Ireland, Invited lecture
13. M. Girtan, *Ellipsometric modelling as a solution to reduce the experimental tests and the waste of materials in the optimization of multilayers thin films fabrication process*, 08/11/2018, Invited seminar, Dublin Institute of Technology
14. M. Girtan, *Solar energy and photonics devices*, Invited seminar, 22/08/2018, Uppsala University
15. M. Girtan, *Solar energy conversion systems*, Invited seminar, 14/06/2018, Dublin Institute of Technology
16. M. Girtan, *Future solar energy devices*, Invited seminar, 11/06/2018, Trinity College Dublin
17. M. Girtan, *Solar cells and photonics devices*, Invited seminar, 24/05/2018, INSA – Rennes
18. M. Girtan, *Trends on the new generation solar cells research*, Invited seminar, 19/12/2016, Vilnius University
19. M. Girtan, *On the polymer : fullerene organic solar cells*, 05/03/2014, Physics Department, University College Dublin
20. M. Girtan, *On the electrical and photo-electrical properties of some conducting polymers used in organic solar cells*, 12/07/2013, Department of Chemistry, University of Athens
21. M. Girtan, *On the stability of the electrical and photoelectrical properties of P3HT:PCBM solar cells thin films components*, 29/10/2012, National Hellenic Research Foundation, Athens
22. M. Girtan, *Transparent and conducting thin films with applications in organic solar cells*, 30/07/2010, National Institute of Materials Physics, Bucharest, Romania
23. M. Girtan, *Le rôle des oxydes transparents et conducteurs dans les cellules solaires de troisième génération*, 17/06/2010, XLIM, Limoges
24. M. Girtan, *Films minces pour électronique plastique. Dispositifs*, 27/04/2010, Institut Charles Sadron, Strasbourg

INTERNATIONAL CONFERENCES - (146)

1. M. Girtan, R. Mallet, *On the photoelectrical properties of MAIPbI₂ perovskites thin films*, NanoGe, 4-8 November 2019, Berlin (p)
2. M. Girtan, *Technologies for future solar energy devices*, ModTech, 19-22 June 2019, Iasi, (o)
3. M. Girtan, L. Hrostea, I. Leontie, *Ellipsometric modelling as a solution to the optimization of thin films devices fabrication process*, ModTech, 19-22 June, 2019 Iasi (o)
4. J. Walshe, G. Amarandei, J. Doran, M. Girtan, *Development of Plasmonic Enhanced Luminescent down Shifting (pLDS) and 'Bragg-Type' Layers for Photovoltaic Applications*, 20th International Conference-School Advanced Materials and Technologies, Aug. 27-31, 2018, Palanga, Lithuania (p)
5. M. Girtan, *Future Solar Energy Devices*, SPIE Photonics Europe, 22-26 April 2018, Strasbourg (Spie Digital library oral video presentation available) (o)
6. M. Girtan, *Electronics and photonics towards plasmonics and new solar energy devices*, SPIE Photonics Europe, 22-26 April 2018, Strasbourg (p)
7. M. Girtan, *Abundance and scarcity of elements on earth and universe*, EMRS-fall Meeting, 18-21 September 2017, Warsaw (p)
8. L. Hrostea, M.L. Grilli, M. Girtan, *Indium free Oxide/Metal/Oxide for solar cell applications*, EMRS-fall Meeting, 18-21 September 2017, Warsaw (p)
9. M. Girtan, *Trends in the new generation solar cells research*, ICPAM, 8-14 Sept. 2016, Cluj-Napoca, Romania (o)
10. M. Boclinca, L. Hrostea, B. Negulescu, A. Stanculescu, L. Leontie, M. Girtan, *On the physical properties of TiO₂/Au/TiO₂ multilayer films structures*, ICPAM, 8-14 Sept. 2016 Cluj-Napoca, Romania (p)
11. L. Hrostea, M. Boclinca, M. Socol, R. Mallet, L. Leontie, M. Girtan, *Optical, structural and morphological properties of Bi₂O₃/Au/Bi₂O₃ multilayer films structures*, ICPAM, 8-14 Sept. 2016 Cluj-Napoca, Romania (p)
12. M. Girtan, *The influence of metallic cathode geometry on the performances of organic solar cells*, EMRS, 2-6 mai, 2016, Lille, France, Symp. T (p)
13. J. Merigeon, O. Maalej, B. Boulard, M. Girtan, *Rare Earth Down Converter Glasses for Solar Cells Encapsulation*, EMRS, 2-6 mai, 2016, Lille, France, Symp. T (p)
14. M. Girtan, G. Mousdis, et al, *Studies of the morphological and optical properties of CH₃NH₃PbI₃ nanowires prepared by spin-coating*, EMRS, 2-6 mai, 2016, Lille, France, Symp. T (p)
15. M. Girtan, A. Stanculescu, M. Socol, M. Kompitsas, *Indium free transparent electrodes for solar cells and plastic electronics*, EMRS, 2-6 mai, 2016, Lille, France, Symp. E (o)
16. Saidi Wassila, El Maaoui Mohamed, Mohammed S. Rasheed, M. Girtan, *Sol-gel synthesis, structural and optical properties of boron-doped TiO₂ thin films deposited on ITO glass substrates*, ROCAM, 7-10 July 2015, Bucharest, Romania (p)

17. M. Girtan, *Electronics and Photonics Towards Plasmonics and New Solar Energy Devices_Nano2014*, 12th-18th August 2014, Moscow, Russia (o)
18. M. Girtan, *Electrical resistivity dependences on temperature and solar irradiation flow of some conducting polymers used in organic solar cells*, Nano2014, 12th-18th Aug. 2014 Moscow, Russia (o)
19. M. Girtan, *The influence of the distance between irradiation area and cathode position on the performances of P3HT : PCBM and PCDTBT : PCBM solar cells* TCM 2014, 12-17 Oct. 2014 (p)
20. S. Iftimie, R. Mallet, L. Ion, S. Antohe, J. Merigeon, M. Kompitsas, G. Sakellariou, G. Vougioukalakis, M. Girtan *On the properties of ITO, ZnO, ZnO:Al and NiO thin films obtained by thermal oxidation* TCM 2014, 12-17 October 2014 (p)
21. J. Merigeon, R. Mallet, S. Iftimie, M. Girtan *Studies and optimizations of encapsulation antireflection glasses for silicon solar cells panels*, TCM 2014, 12-17 October 2014 (p)
22. M. Girtan, *Electronics and Photonics: Two Sciences in the Benefit of Solar Energy Conversion*, Solar Energy for World Peace, Istanbul, Turkey, 17-19 August 2013 (o)
23. M. Girtan, *On the stability of the electrical and photoelectrical properties of P3HT:PCBM blend thin films* Solar Energy for World Peace, Istanbul, Turkey, 17-19 August 2013 (p)
24. S.Iftimie, J. Merigeon, A. Radu, S. Antohe, M. Kompitsas, M. Girtan *Study of physical properties of some transparent oxides semiconductors obtained by thermal oxidation of metallic thin films*, Solar Energy for World Peace, Istanbul, Turkey, 17-19 August 2013 (p)
25. M. Girtan, *Electronics and Photonics: Two Sciences in the Benefit of Solar Energy Conversion*, ISFOE 6th, 8-11 July 2013 Thessaloniki (o)
26. M. Girtan, S. Iftimie, J. Merigeon, S. Antohe, M. Kompitsas, *Study of physical properties of some transparent oxide semiconductors films obtained by thermal oxidation of metallic thin films*, ISFOE 6th, 8-11 July 2013 Thessaloniki (p)
27. M. Girtan, *On the stability of the electrical and photoelectrical properties of organic solar cells conducting polymers*, ISFOE 6th, 8-11 July 2013 Thessaloniki (o)
28. M. Girtan, *Electronics and Photonics: Two Sciences in the Benefit of Solar Energy Conversion*_EMRS, 27-31, May, 2013, Strasbourg, France, Symp. F (o)
29. M. Girtan, *On the electrical properties stability of transparent conducting electrodes for third generation solar cells*, EMRS, 27-31, May, 2013, Strasbourg, France, Symp. O (o)
30. M. Girtan, *New photoelectrical properties of P3HT:PCBM blend thin films* _EMRS, 27-31, May, 2013, Strasbourg, France, Symp. B (p)
31. M. Girtan, *Electronics and Photonics: Two Sciences in the Benefit of Solar Energy Conversion*, 4th International Symposium on Transparent Conductive Materials, 21-26 October, 2012, Crete (o)
32. M. Girtan, R. Mallet, A. Stanculescu, L. Leontie, I. Vaiciulis, M. Kompitsas, D. Mardare, S. Antohe *Electrical and optical properties of Transparent Oxide/Metal/Oxide Multilayer Films Deposited on Glass*

- and PET substrates 4th International Symposium on Transparent Conductive Materials, 21-26 October, 2012, Crete, Greece (p)
33. M. Girtan, *New Photoelectrical properties of P3HT:PCBM blend thin films*, The 7th International Conference on Advanced Materials, ROCAM, 28-31 August 2012 (o)
 34. M. Girtan, *Electronics and Photonics: Two Sciences in the Benefit of Solar Energy Conversion* The 7th International Conference on Advanced Materials, ROCAM, 28-31 August 2012 (o)
 35. M. Girtan, A. Stanculescu, S. Antohe, L. Leontie *Oxide/Metal/Oxide Transparent Electrodes for Plastic Electronics and Plastic Solar Cells* The 7th International Conference on Advanced Materials, ROCAM, 28-31 August 2012 (o)
 36. I. Vaiciulis, M. Girtan, A. Stanculescu *On the Surface Properties of Titanium Oxide Thin Films Deposited by Spin Coating and Spray Pyrolysis* The 7th International Conference on Advanced Materials, ROCAM, 28-31 August 2012 (p)
 37. M. Girtan *Comparison of ITO/metal/ITO and ZnO/metal/ZnO transparent electrodes for plastic solar cells* EMRS, 14-18, May, 2012, Strasbourg, France (p)
 38. M. Girtan, A. Stanculescu, O. Rasoga, B. Pattier, M. Sylla, A. Monteil *Sol-Gel Deposited In: ZnO Films for Solar Cells Applications* ROCAM, 25-28, August 2009, Brasov, Romania (o)
 39. M. Girtan, M. Kompitsas, R. Mallet, I. Fasaki *On physical Properties of Undoped, Al and In Doped ZnO Films Deposited on PET Substrates by PLD* 2nd International Symposium on Flexible Organic Electronics (IS-FOE09), 8-10 July 2009, Porto Carras, Greece (o)
 40. M. Girtan, A. Vlad, D. Mardare, A. Stanculescu *Pulsed laser deposited Aluminium Doped zinc Oxide Films on PET Substrates*, European Materials Research Society - EMRS, 8-12 June, 2009 Strasbourg, France, Symp F (p)
 41. D. Mardare, F. Iacomi, N. Cornei, M. Girtan, D. Luca, *Undoped and Cr-Doped TiO₂ Thin Films Obtained by Spray Pyrolysis* European Materials Research Society - EMRS, 8-12 June, 2009 Strasbourg, France, Symp H (p)
 42. A. Stanculescu, M. Socol, O. Rasoga, F. Stanculescu, G. Socol, M. Nistor, M. Girtan, M. Sylla, A-M. Albu *Transport Properties in Organic heterostructures for Transparent Optoelectronics* European Materials Research Society - EMRS, 8-12 June, 2009 Strasbourg, France, Symp F
 43. M. Girtan, G.G. Rusu, Mihaela Rusu *Thermal stability of poly(3,4-ethylenedioxythiophene)-polystyrenesulfonic acid electrical properties*, Nano SEA 2008, Second International Conference on Nanostructures Self-Assembly, Rome 7-10 July, Italy (p)
 44. M. Girtan, *Structural and Optical properties of In doped ZnO thin films*, IS-TCO, 2nd International Symposium on Transparent Conductive Oxides, 22-26 October 2008, Crete, Greece (p)
 45. M. Girtan, G.G. Rusu, *Role of ITO and PEDOT:PSS in Stability / Degradation of Polymer: Fullerene BHJ Solar Cells* ICPAM-8, June 4-7, 2008, Iasi, Romania (p)
 46. M. Girtan, S. Dabos-Seignon *Properties of thermal vacuum deposited pentacene films*, E-MRS 2007 Spring Meeting, Strasbourg, May 28-June 1st, 2007 (p)

47. M. Girtan, Sylvie Dabos – Seignon, J.M. Nunzi *On the Physical Properties of Pentacene Thin Films* 6th Iberian Vacuum Meeting IVM-6, June 26-28, 2006, Salamanca, Spain (p)
48. G. G. Rusu, M.Rusu, M. Girtan, *Optical Characterization of Vacuum Evaporated CdZnTe Thin Films Deposited by Stacked Layer Method* 6th Iberian Vacuum Meeting IVM-6, June 26-28, 2006, Salamanca, Spain (p)
49. M. Girtan, P.O. Logerais, Anne Bouteville, S. Gurlui, G.G. Rusu, *Thermal stability of electrical and optical properties of transparent conducting substrates for solar cells* 7th International Balkan Workshop - Applied Physics, July 5-7th, 2006, Constanta, Romania (p)
50. M. Girtan, A.Bouteville, G.G.Rusu, Mihaela Rusu, *F Doped SnO₂ Thin Films Properties* 6th International Balkan WorkShop on Applied Physics Romania, Constanta, July 5-7 2005 (p)
51. M. Girtan, P.O. Logerais, L. Avril, A. Bouteville, F. Gonzatti *Thermal profile evaluation of a silicon wafer in a rapid thermal chemical vapour deposition apparatus* ICPAM-7, International Conference, June, 10-12, 2004, Iași, Romania (p)
52. M. Girtan, *Investigations on the optical constants and Urbach tail parameter of indium oxide thin films prepared by ultrasonic spray pyrolysis* EMRS , 2004, May 24-28, Strasbourg, D/PI.19 (p)
53. D. Mardare, G.I. Rusu, F. Iacomi, M. Girtan, I. Vida-Simiti *Chromium doped titanium oxide thin films* European Materials Research Society, May 24-28, 2004, Strasbourg, France, D/PI23 (p)
54. M. Rusu, A. Stanciu, M. Vasiloschi, G.G. Rusu, M. Girtan, G.I. Rusu, *On the electronic transport and optical properties of some new poly(azomethine) urethanes in thin films* E-MRS 2004, Spring Meeting, May 24-28, 2004, Strasbourg, France, G/PII04 (p)
55. G.G.Rusu, M. Girtan, M.Rusu, N.Apetroaie, *Effect of the heat treatment on the structure and optical properties of cu-doped CdTe thin films* Workshop on Fundamental and Applied Research in Physics, Iasi, Oct. 30th 2004 (p)
56. M. Girtan, G.I. Rusu, *Influence of deposition condtions on the electrical and optical properties of SnO₂ flims prepared by pyrolitic decomposition method* Balkan Physical Union, BPU-5, August 25-29, 2003, Vrnjacka Banja, Serbia & Montenegro (p)
57. M. Girtan, G.I. Rusu *Characterisation of SnO₂ and F doped SnO₂ thin films prepared by an ultrasonic CVD process* ROCAM, 15-18, Sept. 2003, Romania (p)
58. M. Girtan, *The wetting properties of indium oxide thin films* Solid/Fluid Interfaces, 29 March-3 April 2003, St. Feliu de Guixols, Spain (p)
59. M. Girtan, G. Folcher, A. Ionel, G.I. Rusu, *Structure, optical and electrical properties of SnO₂ and SnO₂:F spray pyrolysis deposited thin films* Solid/Fluid Interfaces, 29 March-3 April 2003, St. Feliu de Guixols, Spain (p)
60. M. Girtan, A. Pui, E. Indrea, M. Tasca, N. Apetroaie, *Investigations on surface free energy of indium oxide thin films*, MATEHN'02 Cluj Napoca 12-14 sept., 2002 (p)
61. M. Girtan, G.I. Rusu, *The influence of deposition parameters on the electrical properties of indium oxide thin films prepared by an ultrasonic spray CVD process*, European Physical Society, EPS-12, Budapest, 26-30 August 2002, P1-74-C, p. 203 (p)

62. M. Girtan, M. Rusu, A. Ionel, G.I. Rusu, *Studies of physical properties F doped SnO₂ thin films*, EPS-12, Budapest, 26-30 August 2002, P1-85-C, p. 214 (p)
63. M. Girtan, *Physical properties of indium oxide thin films prepared by pyrosol Nano-7/Ecoss-21*, June 24-28, 2002, Malmo, Sweden, TH-P-204, p. 117 (p)
64. M. Rusu, M. Girtan, I. Caplanus, V. Sunel, G.I. Rusu, *On the mechanism of electrical conduction in some new organic semiconductors in thin films*, E-MRS 2002 Spring Meeting, June 18-21, 2002, Strasbourg, France, p. F-4 (p)
65. M. Girtan, G.I. Rusu, A. Stanciu, M. Popa, *On the electrical properties of some new aromatic poly (azomethine urethanes) in thin films* ROCAM, 23-25oct. 2000 (p)
66. M. Girtan, G.I. Rusu, *The surface tension of In₂O₃ films prepared by thermal oxidation and spray pyrolysis*, ROCAM, 23-25oct. 2000 (p)
67. M. Girtan, G.I. Rusu, G.G. Rusu, *The influence of the electrical current flow sense on the electrical properties of oxidized indium thin films* Conference of the Balkan Physical Union, Veliko Turnovo, 22-27 August 2000, Bulgaria (p)
68. M. Girtan, G.I. Rusu, G.G. Rusu, S. Gurlui *On the electrical and optical properties of the oxidized indium thin films*, ACSIN -5July 6-9 ,1999, Aix en Provence, France (p)
69. M. Girtan, G.I. Rusu, *Characterization of In₂O₃ films deposited by pyrolytic decomposition method* ACSIN July 6-9 ,1999, Aix en Provence, France (p)
70. M. Girtan, G.I. Rusu, A. Stanciu, G.G. Rusu, *On the electrical properties of some new aromatic poly(azomethine urethanes) in thin films*, The 3 rd conference on Condensed Matter Physics, sept. 17-19th, 1999, Timisoara, Romania (p)

**

71. L. Hrostea, P. Lisnic, M. Girtan, L. Leontie, *Polymer and Polymer:Fullerene blend thin films-optical characterization by spectroscopic ellipsometry*, The 6th International Colloquium "Physics of Materials" PM-6, Bucharest, Romania, Nov 15 – 16, 2018 (p)
72. L. Hrostea, M. Girtan, Liviu Leontie, *Measurement of optical constants in P3HT and P3HT:PCBM thin films by spectrophotometry and spectroscopic ellipsometry*, 18th International Balkan Workshop on Applied Physics Constanța, Romania, July 10-13, 2018 (o)
73. L. Hrostea, M. Girtan, Liviu Leontie, *Alternative thin film structures for SnO₂:In (ITO) used as electrodes in solar cells*, FEMS Junior Euromat 2018 – Budapest Training School, 9 July 2018 (p)
74. L. Hrostea, M. Girtan, Liviu Leontie, *Studies of physical properties of ZnO:Al și Bi₂O₃ thin fillms used in solar cells*, TIM18 Physics Conference, 24 – 26 May 2018, Timișoara, Romania (o)
75. L. Hrostea, M. Girtan, Liviu Leontie, *Optical properties of P3HT and P3HT:PCBM blend thin films by spectroscopic ellipsometry*, The 46-th National Conference on Physics and Modern Education Technologies, 19-20 May 2018, Iasi, Romania (p)

76. L. Hrostea, M. Girtan, R. Mallet, L. Leontie, *Optical and Morphological Properties of P3HT and P3HT:PCBM Thin Films used in Photovoltaic Applications*, ICIR Euroinvent 2018, International conference on innovative research, 17 – 18 May 2018, Iași, Romania (o)
77. M.L. Grilli, M. Yilmaz , A. Sytchkova, S. Boycheva, A. Piegari, M.R. Mancini, M. Girtan, *Radio frequency sputtered In-free transparent conductors* , EMRS-fall Meeting, 18-21 September 2017, Warsaw (p)
78. C. Breazu, G. Socol, A-M Catargiu, M. Grigoras, O. Rasoga, A. Stanculescu, M. Socol, F. Stanculescu, N. Preda, M. Girtan, *Effect of 2D electrode patterning on the properties of arylenevinilene based polymer mixed layers*, ROCAM, 11-14 July, 2017, Bucharest (p)
79. F. Stanculescu, M. Socol, M. Girtan, O. Rasoga, C. Breazu, A. Stanculescu, *Electrical Properties of Nucleic Acids Bases Molecular Wide Band Gap Heterostructures*, ROCAM, 11-14 July, 2017, Bucharest (p)
80. C. Breazu, F. Stanculescu, G. Socol, L. Vacareanu, M. Grigoras, M. Socol, N. Preda, M. Girtan, A. Stanculescu, *Optical and electrical properties of arylenevinylene based flexible heterostructures with Al:ZnO transparent conductor electrode*, ROCAM, 11-14 July, 2017, Bucharest (p)
81. M. Socol, N. Preda, C. Breazu, A. Stanculescu, A. Costas, F. Stanculescu, M. Girtan, F. Gherendi, G. Popescu-Pelin, G. Socol, *Functionalized organic heterostructures deposited by MAPLE on flexible substrate*, ROCAM, 11-14 July, 2017, Bucharest (p)
82. M. Socol , C. Breazu, G. Socol, N. Preda , C. Florica , O. Rasoga , A. Stanculescu1 , F. Stanculescu, M. Girtan, Hendrik Swart, *The properties of organic heterostructures deposited on nanostructured metallic substrates for optoelectronic applications*, ICPAM, 8-14 Sept. 2016 Cluj-Napoca (p)
83. C. Breazu, M. Socol, N. Preda, P. Ganea, A. Stanculescu, F. Stanculescu , M. Girtan, O. Rasoga, *On the properties of organic heterostructures prepared on nano-patterned electrode*, ICPAM, 8-14 Sept. 2016 Cluj-Napoca, Romania (p)
84. C. Breazu, M. Socol, N. Preda, A. Stanculescu, F. Stanculescu, M. Girtan, G. Socol, O. Rasoga, *Effect of nano-patterning on the properties of the organic heterostructures prepared on Si substrate*, EMRS, 2-6 mai, 2016, Lille, France, Symp. Z (p)
85. M Socol, N. Preda, A. Stanculescu, C. Breazu, F. Stanculescu, G. Socol, M. Girtan, *Organic heterostructures deposited by MAPLE on AZO substrate*, EMRS, 2-6 mai, 2016, Lille, France, Symp. C (p)
86. A. Stanculescu, O. Rasoga, M. Socol, L. Vacareanu, M. Grigoras, G. Socol, F. Stanculescu, C. Breazu, M. Girtan, *MAPLE prepared oligoazomethine: fullerene derivative mixed layer for photovoltaic applications*, EMRS, 2-6 mai, 2016, Lille, France Symp. C (p)
87. Laura Hrostea, M. Girtan, L. Leontie, *Numerical simulation of silicon solar cells using AFORS – HET*, FARPHYS, Octomber 2015, Iași, Romania
88. Solene Bechu, A. Gouillet, L. Cattin-Guenadez, D. Duche, J-J. Simon, M. Girtan, L. Brohan, M. Richard-Plouet, *Towards offsetting up an intermediate band solar cell based on titanium oxides sol-gels*, ROCAM, 7-10 July 2015, Bucharest, Romania (o)
89. M. Socol, O. Rasoga, C. Breazu, 2, N. Preda, F. Stanculescu, A. Stanculescu, G. Socol, M Girtan, *Normal and inverted organic solar cells based on small molecule compounds*, ROCAM, 7-10 July 2015, Bucharest, Romania (p)

90. M. Socol, N. Preda, O. Rasoga, C. Breazu, F. Stanculescu, G. Socol, F. Gherendi, M. Girtan, *MAPLE obtained metal phthalocyanines thin films on flexible substrates*, ROCAM, 7-10 July 2015, Bucharest, Romania (p)
91. Fawzy. A. Mahmoud, Mohammed Rasheed, Ahmed F. Mabied, M. Girtan, *Structural and optical properties of RF sputtered ZnO:Ga thin films*, ROCAM, 7-10 July 2015, Bucharest, Romania (p)
92. A. Stanculescu, G. Socol, L. Vacareanu, M. Socol, O. Rasoga, C. Breazu, M. Girtan, F. Stanculescu, *MAPLE preparation and characterization of mixed arylenevinylene based oligomers: C60 layers*, EMRS, 11-15 May 2015, Lille, France (p)
93. S. Bechu, A. Goullet, L. Cattin-Guenadez, D. Duche, J-J. Simon, M. Girtan, L. Brohan, M. Richard-Plouet, *Intermediate band solar cell based on titanium oxides photosensitives sol-gels*, EMRS, 11-15 May 2015, Lille, France (o)
94. M. Socol, N. Preda, O. Rasoga, C. Breazu, F. Stanculescu, G. Socol, F. Gherendi, V. Grumezescu, N. Stefan, M. Girtan, *Flexible heterostructures based on metal phthalocyanines thin films deposited by MAPLE*, EMRS, 11-15 May 2015, Lille, France (p)
95. J. Merigeon, O. Maalej, S. Iftimie, A. Stanculescu, B. Boulard, M. Girtan, *Encapsulation glasses for silicon solar cells*, EMRS, 11-15 May 2015, Lille, France (p)
96. O. Rasoga, A. Stanculescu, C. Breazu, M. Socol, A.-M. Catargiu, F. Stanculescu, M. Girtan, *Bulk heterojunctions with arylene based polymers donor for solar cells applications*, EMRS, 11-15 May 2015, Lille, France (p)
97. Olfa Maalej, Brigitte Boulard, J. Merigeon, M. Girtan, Mohamed Dammak, *Verres fluorés à base de ZrF4 pour la conversion de fréquence dans les cellules photovoltaïques*, 2eme Conférences Internationale des Energies Renouvelable, CIER-14, 19-21 Dec Monastir, Tunisie (p)
98. P. Koralli, M. Kandyla, G. Mousdis, M. Kompitsas, M. Girtan, D. E. Manolakos, *Sol Gel grown compound ZnO Thin Films for photovoltaic applications*, TCM 2014, 12-17 October 2014 (o)
99. A. Stanculescu, G. Socol, I. N. Mihailescu, L. Vacareanu, M. Socol, C. Breazu, O. Rasoga, F. Stanculescu, M. Girtan, *Organic flexible heterostructures with Al:ZnO transparent conductor electrode for photovoltaic applications*, TCM 2014, 12-17 October 2014 (p)
100. L. Leontie, R. Dănac, A. Cârlescu, F. Iacomì , N. Roșu, C. Dumea, M. Girtan, Gh. I. Rusu, *DC conduction mechanism of some new lower rim substituted calixarenes derivatives in thin films* ICPAM-10, 22-28 Sept. 2014
101. S. Iftimie, R. Mallet, L. Ion, A. Radu, M. Girtan, S. Antohe, *On the physical properties of different metallic oxides obtain by direct thermal oxidation* ICPAM-10, 22-28 Sept. 2014 (o)
102. C. Adomnitei, D. Luca, M. Girtan, L. Ghiorghita, D. Mardare, *Photocatalytic properties of Nb doped TiO₂ thin films* ICPAM-10, 22-28 Sept. 2014 (o)
103. M. Kompitsas, Panagiota Koralli, Maria Kandyla, George Mousdis, M. Girtan, *Low cost and high efficient, second generation thin film solar cells*, ICPAM-10, 22-28 Sept. 2014 (o)

104. P. Koralli, M. Kandyla, G. Mousdis, M. Kompitsas, M. Girtan, *Sol-gel grown compound ZnO thin films for photovoltaic applications*, 30th PanHellenic Conference on Solid-State Physics and Materials Science, 21-24 Sept, Heraklion, Crete
105. A.D. Nega, V.S. Manthou, E.K. Pefkianakis, M. Girtan, G.C. Vougioukalakis, G. Sakellariou, *Optimal Heterojunction Organic Photovoltaics bearing Self-Organized Active Layers*, ISFOE14, 7th-10th July, 2014, Thessaloniki, Greece
106. S. Iftimie, R. Mallet, L. Ion, S. Antohe, J. Merigeon, M. Kompitsas, G. Sakellariou, G. Vougioukalakis, M. Girtan *On the structural, morphological and optical properties of ITO, ZnO, ZnO:Al and NiO thin films obtained by thermal oxidation*, NN14, 8th-11th July, 2014, Thessaloniki, Greece (p)
107. J. Merigeon, R. Mallet, S. Iftimie, M. Girtan, *The influence of the encapsulation glass properties on the performances of silicon solar cells panels*, NN14, 8th-11th July, 2014, Thessaloniki, Greece (p)
108. S. Iftimie, A. Radu, R. Mallet, L. Ion, M. Girtan, S. Antohe, *On the Physical Properties of Different Oxides Thin Films Obtained by Thermal Oxidation*, IBWAP, 2-4 July, 2014 (o)
109. F. Stanculescu, O. Rasoga, M. Socol, C. Breazu, A.-M. Albu, G. Socol, M. Girtan, A. Stanculescu *Heterostructures based on maleic anhydride-aniline derivatives monomers thin films for photovoltaic applications*, EMRS, 26-30 May, 2014, Symp. DD (p)
110. L. Ion, S. Iftimie, A. Radu, R. Mallet, S. Antohe, M. Girtan, *Study of optical, morphological and electrical properties of TiO₂ and Nb:TiO₂ oxides obtained by thermal oxidation*, EMRS, 26-30 May, 2014, Symp. I (p)
111. S. Iftimie, R. Mallet, J. Merigeon, L. Ion, S. Antohe, M. Girtan, *On the physical properties of different metallic oxides obtained by direct thermal oxidation* EMRS, 26-30 May, 2014, Symp. AA (p)
112. L. Leontie, I. Evtodiev, N. Spalatu, M. Caraman, S. Evtodiev, O. Racovet, M. Girtan *Optical and photoelectric properties of lamellar nanocomposites obtained by Cd intercalation of GaTe*, EMRS, 27-31, May, 2013, Strasbourg, France, Symp. F (p)
113. I. Caraman, V. Kantser, I. Evtodiev, L. Leontie, G. Ardjumanian, M. Stamate, L. Dmitroglou, M. Girtan *Composition and structure of lamellar composites obtained by intercalation of III-VI layered semiconductor materials* EMRS, 27-31, May, 2013, Strasbourg, France, Symp. J (p)
114. P. Koralli, M. Kandyla, M. Kompitsas, G. Mousdis, M. Girtan, D.E. Manolakos *Laser Scribing of Thin Films Relevant for the Second Generation, Large Scale Monolithic Photovoltaic Solar Cells XXIX PanHellenic Conference on Solid-State Physics and Materials Science*, 22-25 September 2013, Athens (p)
115. M. Dosmailov, J. Patek, G. Sbarcea, M. Girtan, A. Vlad, M.A. Bodea, G.V. Naik, A. Boltasseva, T.A. Klar, J.D. Pedarnig *Optical properties of metal doped ZnO thin films on glass and polymer substrates* Annual Meeting of the Austrian Physical Society and the Swiss Physical Society 3-6 September 2013, Linz (p)
116. S. Iftimie, J. Merigeon, S. Antohe, M. Kompitsas, M. Girtan, *Optical, structural and morphological investigations for different metallic oxides* 13th International Balkanic workshop on Applied Physics, Constanta, Romania 4-6 July, 2013 (p)

117. C. Adomnitei, D. Florea, I. Sandu, M. Girtan, D. Luca, V. Nica, D. Mardare *Hydrophilic Properties of the Nb-Doped TiO₂ Thin Films Deposited by Spray Pyrolysis* The 9th International Conference On Physics of Advanced Materials (ICPAM-9) 20 - 23 September 2012, Iasi, Romania (p)
118. D. Florea, C. Adomnitei, N. Cornei, A. Manole, M. Dobromir, M. Girtan, D. Luca, D. Mardare *The Influence of Different Cr Content on the Properties of TiO₂ Thin Films* The 9th International Conference On Physics of Advanced Materials (ICPAM-9) 20 - 23 Sept. 2012, Iasi, Romania (o)
119. F. Stanculescu, M. Socol, A. Albu, G. Socol, M. Girtan, A. Stanculescu *Optical and Electrical Properties of Heterostructures Based on Maleic Anhydride-Aniline Derivatives Monomers Thin Films for Optoelectronic and Photovoltaic Applications* The 7th International Conference on Advanced Materials, ROCAM, 28-31 August 2012 (o)
120. O. Toma, M. Girtan, S. Antohe *Optical and Morphological Properties of Thermally Vacuum Evaporated CdTe Thin Films for Photovoltaic Applications* The 7th International Conference on Advanced Materials, ROCAM, 28-31 August 2012 (p)
121. D. Mardare, A. Yildiz, M. Girtan, A. Manole, M. Dobromir, C. Adomnitei, D. Florea, N. Cornei, D. Luca, *The Influence of the Nb Content on Some Physical Properties of the Titania Thin Films*, NanoSEA 2012 – International Conference on NANOSTRUCTURES Self-Assembly, 24-29 June 2012, Sardinia, Italia (p)
122. F. Habelhames, M. Girtan, A. Manole, L. Lamiri, Z. Wided, N. Belkacem *Enhancement of photoelectrochemical and optical characteristics using a TiO₂ nanoparticles interlayer in MEH-PPV heterojunction devices*, TechConnect World 2012, June, 18-21, Santa Clara, USA (p)
123. A. Manole, M. Dobromir, V. Nica, M. Girtan, D. Luca, *Ellipsometry study of TiO₂:N thin films prepared by sol-gel method*, 10th International Conference on Global Research and Education, 26-29 Sept. 2011, Sucevita , Romania (o)
124. M. Soyly, M. Girtan *Properties of PEDOT:PEG/ZnO/p-Si heterojunction diode* Turkish Physical Society 28th International Physics Congress, 6-9 September 2011, Bodrum -Mugla –Turkey (o)
125. S. Iftimie, C. Besleaga, C. Florica, A.Radu, F. Ghomrani, I. Arghir, L.Ion, S. Antohe, M. Girtan *Influence of PEDOT :PSS Layer on the Performances of Photovoltaic Cells Based on MEH-PPV:PCBM Blend* 12th International Balkan Workshop on Applied Physics, 6 - 8 July, 2011, Constanta, Romania (o)
126. M. Girtan. A. Stanculescu, *Transparent conducting thin films for organic electronics*, TCM 2010 3rd International Symposium on Transparent Conductive Materials 17 - 21 October, 2010 Analipsi / Hersonissos, Crete (p)
127. A. Stanculescu, M. Socol, G. Socol, I. N. Mihailescu, M. Girtan, A.-M. Albu, F. Stanculescu, *Effect of Maleic Anhydride-aniline Derivative Buffer Layer on the Properties of Flexible Substrate Heterostructures: ITO/Nucleic Acid Base/Metal*, TCM 2010 3rd International Symposium on Transparent Conductive Materials 17 - 21 October, 2010 Analipsi / Hersonissos, Crete (o)
128. F. Ghomrani, N. Gabouze, A. Serier, M. Socol, A. Stanculescu, M. Girtan, L. Leontie, *Studies of the Influence of Al Doping Agents Nature on the Physical Properties Al:ZnO Films Deposited by Spin-Coating Technique* CNF, 23-25 September 2010 Iasi, Romania (p)

129. A. Stanculescu, L. Vacareanu, M. Grigoras, M. Socol, G. Socol, F. Stanculescu, N. Preda, E. Matei, I. Ionita, M. Girtan, I. N. Mihailescu, *Thin Films of Arylenevinylene Oligomers Prepared by Maple for Applications in Non-Linear Optics*, EMRS, June 7-11, 2010, Strasbourg, France (o)
130. A. Stanculescu, M. Socol, G. Socol, I. N. Mihailescu, F. Stanculescu, M. Girtan, *Maple Prepared Organic Heterostructures for Photovoltaic Applications*, ICPEPA 7th International Conference on Photo-Excited Processes and Applications 16-19 August 2010, Copenhagen, Denmark (o)
131. A. Stanculescu, M. Secu, M. Socol, N. Preda, O. Rasoga, A-M. Albu, G. Socol, F. Stanculescu, I. Ionita, M. Girtan *Thin Films of Maliemidic Derivatives Monomers for Photonics prepared by MAPLE* European Materials Research Society - EMRS, 8-12 June, 2009 Strasbourg, France, Symp Q (p)
132. A. Stanculescu, M. Socol, O. Rasoga, F. Stanculescu, G. Socol, M. Nistor, M. Girtan, M. Sylla, A-M. Albu, *Transport Properties in Organic heterostructures for Transparent Optoelectronics*, European Materials Research Society - EMRS, 8-12 June, 2009 Strasbourg, France, Symp F (o)
133. A. Taouri, H. Derbal, R. Mountasser, M. Girtan A. Stanculescu, M. Sylla, *Two-Photon Absorbtion Cross-Section Maesurement by Thermal Lens and Nolinear Transmission methods: A comparative study*, ROCAM, 25-28, August 2009, Brasov (p)
134. Farid Hab Elhames, Belkacem Nessark, M. Girtan, Lakhdar Guerbouz, *Optical and photo-electrochemical characterization of organic-inorganic photosensitive materials*, ICTON Mediterranean Winter Conference, Angers 10-12 December 2009 (p)
135. B. Pattier, M. Henderson, A. Kassiba, M. Girtan A. Gibaud, *EPR and SAXS studies of a TiO₂-based gel*, ICTON Mediterranean Winter Conference, Angers 10-12 December 2009 (p)
136. F. Stanculescu, A. Stanculescu, M. Girtan, M. Socol, O. Rasoga, *Polymer doped with aniline derivatives monomers composite films for optoelectronic applications*, Romanian Conference on Advanced Materials, 25-28, August 2009, Brasov (o)
137. A. Stanculescu, F. Stanculescu, M. Socol, O. Rasoga, M. Girtan, *Properties of the heterostructures based on nucleic acids bases thin films prepared by vacuum evaporation*, Romanian Conference on Advanced Materials, 25-28, August 2009, Brasov (o)
138. B. Pattier, M. Henderson. A. Kassiba, M. Girtan, A. Gibaud, *SAXS and EPR Studies of TiO₂ Gels*, 10th International Balkan Workshop on Applied Physics, 6-8 July 2009, Constanta, Romania (o)
139. Nicoleta Iftimie, D.Luca, Felicia Iacomi, M. Girtan, Diana Mardare, *Gas Sensing Materials Based on TiO₂ Thin Films*, WoDiM 2008, Workshop on Dielectrics in Microelectronics, June 23-25, Berlin, Germany (p)
140. D. Chapron, M. Girtan, J.Y. Le Pommelec, A. Bouteville, *Droplets dispersion calculations for ultrasonic spray pyrolysis depositions*, 7th Int. Balkan Workshop -Applied Physics, July 5-7th, 2006, Constanta (o)
141. G.G. Rusu, M. Girtan, *Preparation and characterization of ZnO thin films prepared by thermal oxidation of Zn thin films*, E-MRS 2006 Spring Meeting, May 29 - June 2, 2006, Nice, France, KP I-31, (p)
142. M. Girtan, P-O Logerais, A. Bouteville *Study on the possibility of modeling the physical processes involved in spray CVD* EURO-CVD-15, Sept.4-9, Bochum, 2005, Germany (p)

143. P.O. Logerais, M. Girtan, Anne Bouteville, *RTLPCVD modelling: steady-state or transient simulations?*, EUROCVI-15, Sept.4-9, Bochum, 2005, Germany (o)
144. M. Girtan, P.O. Logerais, A. Bouteville, *Substrate Thermal Profiles in Spray CVD Reactors*, 6th Int. Balkan Workshop on Applied Physics Constanta, July 5-7 2005 (p)
145. P.O. Logerais, M. Girtan, A. Bouteville, *Influence of the Quartz Window in a Rapid Thermal Chemical Vapour Deposition Apparatus* 6th Int. Balkan Workshop on Applied Physics, Constanta, July 5-7 2005 (o)
146. G.I. Rusu, L.Leontie, G.G. Rusu, M. Girtan, I. Salaoru, *On the mechanism of electrical conduction in oxidized bismuth thin films*, ECOSS 20 th Eur. Conference on Surface Science Krakow, 4-7sept 2001, Poland (p)

Angers, 1st September 2020

