

## **A. ΛΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΔΙΕΘΝΗ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ.**

1. ***“Effect of ion implantation on the mechanical behavior of GaN films”***  
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2. ***“Structural characterization of Na<sub>2</sub>O-SiO<sub>2</sub>-CaO glass ceramics reinforced with Electric Arc Furnace Dust”***  
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K. Simeonidis, S. Mourdikoudis, M. Moulla, I. Tsiaoussis, C. Martinez-Boubeta, M. Angelakeris, C. Dendrinou-Samara and O. Kalogirou  
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G. A. Stanciu, I. Sandulescu, B. Savu, S. G. Stanciu, K.M. Paraskevopoulos, X. Chatzistavrou, E. Kontonasaki, P. Koidis  
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93. ***“Study of the structure of hot-dip galvanizing byproducts”***  
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*J. Therm. Anal. Cal.*, **89** (2007) 525
105. ***“Resistance of zinc thermal sprayed coatings on different corrosive environments”***  
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106. ***“Zinc coatings for oxidation protection of ferrous substrates. Part I: Macroscopic examination of the coating oxidation”***

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107. ***“Zinc coatings for oxidation protection of ferrous substrates. Part II: Microscopic examination of the coating oxidation-Study of the oxidation mechanism”***

G. Vourlias, N. Pistofidis, K. Chrissafis,  
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## **B. ΣΥΜΜΕΤΟΧΕΣ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΑ ΣΥΝΕΔΡΙΑ.**

### **α) Δημοσιεύσεις σε τόμους πρακτικών Διεθνών Συνεδρίων με κριτές.**

1. ***“Influence of Nitridation Conditions on an R-plane Sapphire Substrate on the Structural Quality of a Non-polar Gallium Nitride Epilayer”***

Smalc J., Komninou Ph., Sahonta S-L., Karakostas Th., Tsiakatouras G.,  
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Republic, July 2007, pp. 175-176

2. ***“Epitaxial growth of single crystalline GaN nanowires on (0001) Al<sub>2</sub>O<sub>3</sub>”***

Th. Kehagias, Ph. Komninou, G.P. Dimitrakopoulos, S.-L. Sahonta, C. Chèze, L.  
Geelhaar, H. Riechert, and Th. Karakostas

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3. ***“Electron microscopy characterization of a graded AlN/GaN multilayer grown by plasma-assisted MBE”***

G. P. Dimitrakopoulos, Ph. Komninou, Th. Kehagias, A. Delimitis, J. Kioseoglou, S. -  
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4. ***“Control of structural and magnetic characteristics on core (FePt)-shell (Fe<sub>3</sub>O<sub>4</sub>)***

***nanoparticles”***

S. Mourdikoudis, K.Simeonidis, I. Tsiaoussis, M. Angelakeris, C. Dendrinou-Samara and O. Kalogirou

*European Congress on Advanced Materials and Processes*, Nürnberg-Germany, 10 – 13 September 2007

5. ***“Pt-Co multilayers: Interface effects at the monolayer limit”***

M. Angelakeris, E.Th. Papaioannou, P. Pouloupoulos, A. Vlachos, F. Wilhelm, A. Rogalev and N.K. Flevaris

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6. ***“Novel multilayer combination of CoCr and Pt with adjustable perpendicular anisotropy”***

E. Th. Papaioannou, P. Fumagalli, M. Angelakeris, I. Tsiaoussis, P. Pouloupoulos

*European Congress on Advanced Materials and Processes*, Nürnberg-Germany, 10 – 13 September 2007

7. ***“Surface/interface induced phenomena on Fe-based nanoparticles”***

M. Angelakeris, P. Pouloupoulos, K. Simeonidis, S. Mourdikoudis, F. Wilhelm, A. Rogalev and O. Kalogirou

*ICFPM-6<sup>th</sup> International Conference on Fine Particle Magnetism, New Trends in Particle Magnetism*, Rome-Italy, 09 – 12 October 2007

8. ***“Effect of synthesis parameters on morphology and magnetism of Co-based nanoparticles”***

K. Simeonidis, S. Mourdikoudis, I. Tsiaoussis, C. Dendrinou-Samara, M. Angelakeris and O. Kalogirou

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9. ***“Influence of morpho - structural features on the magnetic properties of Ag/Co core-shell nanoparticles”***

O. Crisan, A. D. Crisan, and M. Angelakeris

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10. ***“Vocabulary and its evolution on complex networks”***



A. Kalampokis, K. Kosmidis and P. Argyrakis  
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11. **“Priority of motion in systems of two kinds of non-interacting particles”**  
M. Maragakis, P. Argyrakis, S. Carmi, S. Havlin,  
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M. Maragakis, N. Tsakiris, P. Argyrakis  
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Panos Argyrakis, Vladimir Lidsky, Roman Vasiliev, Dmitry Dirin, Vasily Zalunin, and Alexei Vitukhnovsky  
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14. **“Analytical modelling of short channel effects in Si sub-30 nm symmetrical gate-all-around MOSFETs”**  
A. Tsormpatzoglou, C. A. Dimitriadis, R. Clerc, Q. Rafhay, G. Pananakakis, and G. Ghibaudo  
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16. **“Crystal properties of GaN nanowires grown by molecular beam epitaxy”**  
Th. Kehagias, Ph. Komninou, G.P. Dimitrakopoulos, Th. Karakostas, G. Nouet, C. Cheze, L. Geelhaar, and H. Riechert  
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17. **“Structural Characterization of InGaN/GaN quantum wells on (0001) sapphire by HRTEM”**  
S.-L. Sahonta, G.P. Dimitrakopoulos, Ph. Komninou, Th. Karakostas, C. Salcianu, and T. Thrush  
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18. ***“InN thin films and nanostructures grown on (0001) GaN by molecular beam epitaxy”***  
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*Proceedings “Nitride based nanostructures” International workshop, Berlin, Germany, February 06-09, 2007*
19. ***“OptiLab: Design and Development of an Integrated Virtual Laboratory for Teaching Optics”***  
E. Hatzikraniotis, G. Bisdikian, A. Barbas, D. Psillos  
*International Conference on Computer Based Learning in Science, CBLIS-07, Crete, (2007)*
20. ***“Design and Implementation of Integrated Laboratory Activities with Measurements, Data Analysis and Modeling”***  
M. Tsakiri, E. Hatzikraniotis  
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21. ***“Integrated Laboratory Activities with Measurements, Data Analysis and Modeling in Introductory Physics”***  
E. Hatzikraniotis, M. Tsakiri  
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22. ***“Investigating Aspects of Modelling in Electrostatics”***  
E. Petridou, D. Psillos, E. Hatzikraniotis, J. Viiri  
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23. ***“Laboratory Teaching with Measurements, Data Analysis and Modelling: An Introductory Course for Future Physics Teachers”***  
M. Tsakiri, E. Hatzikraniotis  
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24. ***“Residual strain variations in MBE – grown InN thin films”***  
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25. ***“Extended defects in InGaN/GaN quantum well heterostructure LEDs grown on sapphire and silicon substrates”***  
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26. ***“Air quality impact assessment of a pilot plant used for the treatment and stabilization of solid wastes”***  
 A. Poupkou, D. Melas, G. Kaimakamis, P. Kavouras, Th. Kehagias, Th. Karakostas  
*Proceedings of the 11<sup>th</sup> International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes*, Cambridge, UK, July 2007, pp 145-149
27. ***“Changes of structural, optical and electrical properties of nickel-manganese ceramics induced by additional mechanical activation”***  
 M.V. Nikolic, S.M. Savic, O.S. Aleksic, K.M. Paraskevopoulos, T.T. Zorba, V. Blagojevic, P.M. Nikolic  
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28. ***“The separation of Natural from Synthetic Amethyst based on the 3595 cm<sup>-1</sup> band”***  
 S. Karampelas, E. Fritsch, T. Zorba., K.M. Paraskevopoulos, S. Sklavounos  
*Proceedings of 30th International Gemmological Conference (IGC-2007)* Moscow, Russia, July 15-19th, 2007 p. 51
29. ***“MnS Clusters into Zeolite Matrices”***  
 F. Iacomi, C. Radoi, E. Pavlidou, K. M. Paraskevopoulos, N. Vouroutzis, E.K. Polycroniadis  
*Presented at 4th International Workshop on “Nanosciences & Nanotechnologies”*

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30. ***“Morphological and Anisotropic Features of the needle-like K<sub>2</sub>Bi<sub>8</sub>Se<sub>13</sub>-type Pressed Pellets”***  
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*Proceedings of 5th European Conference on Thermoelectrics (ECT2007)* September 10-12, 2007 Odessa (Ukraine) p. 198
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*Proceedings of 5th European Conference on Thermoelectrics (ECT2007)* September 10-12, 2007 Odessa (Ukraine) #30.pdf
32. ***“Effect of Multiple Firings and Annealing of Low and High Fusing Dental Ceramics, on Crystal Structure, Fracture Toughness, Micro-Hardness and Young’s Modulus”***  
A. Theoharidou, N. Kantiranis, P. Kavouras, E. Kontonasaki, X. Chatzistavrou, K.M. Paraskevopoulos, P. Koidis  
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33. ***“Urea- Formaldaehyde resins characterization by FTIR and TG-DTA”***  
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34. ***“Thermal Behaviour of Bionanocomposites: Fumed Silica Nanoparticles Dispersed in Poly(Vinyl Pyrrolidone), Chitosan and Poly(Vinyl Alcohol)”***  
K. Chrissafis, K. M. Paraskevopoulos, G.Z. Papageorgiou and D. Bikiaris  
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Theoharidou A., Kontonasaki E., Oraiopoulou X., Papadopoulou L., Chatzistavrou X., Sivropoulou A., Paraskevopoulos K.M., Koidis P.

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36. ***"Impact of surface electric properties on the haemocompatibility of amorphous hydrogenated carbon thin films"***  
V.Karagkiozaki, S.Logotheidis, S.Lousinian,  
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37. ***"Growth mechanisms of silicon oxide nano-layers grown onto polymeric substrates for flexible electronics applications"***  
D. Georgiou, A. Laskarakis, C. Koidis, N. Goktsis, S. Logotheidis  
*Poster presentation in EMRS Spring Meeting 28 May-1 June 2007, Strasbourg, France*
38. ***"Growth, optical and nanostructural properties of magnetron sputtered ZnO thin films deposited on polymeric substrates"***  
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39. ***"Real-time Spectroscopic Ellipsometry for Protein Adsorption Study and pH Effect"***  
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40. ***"Investigation of the Optical Properties of Organic-Inorganic Hybrid Polymers by IR to Vis-fUV Spectroscopic Ellipsometry"***  
S. Logotheidis, A. Laskarakis, D. Georgiou, N. Goktsis, S. Amberg-Schwab, and U. Weber  
*Oral Presentation in 4th International Conference on Spectroscopic Ellipsometry, June 11-15 2007, Stockholm, Sweden*
41. ***"In-situ and real-time investigation of ZnO thin films growth onto rigid and flexible substrates"***  
C. Koidis, S. Logotheidis, D. Georgiou and A. Laskarakis  
*Poster Presentation in 4th International Conference on Spectroscopic Ellipsometry,*

June 11-15 2007, Stockholm, Sweden

42. ***“In-Situ & Real-Time Monitoring of High Barrier Layers Growth onto Polymeric Substrates”***  
D. Georgiou, S. Logothetidis, C. Koidis, and A. Laskarakis  
*Poster Presentation in 4th International Conference on Spectroscopic Ellipsometry,*  
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43. ***“Optical and Surface Properties of Organic-Inorganic Hybrid Polymers onto Flexible Substrates”***  
A. Laskarakis, S. Logothetidis, D. Georgiou, N. Goktsis, S. Amberg-Schwab, U. Weber  
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44. ***“Haemocompatibility studies on boron nitride and carbon thin Films”***  
S.Lousinian, N. Kalfagiannis, S. Logothetidis  
*Oral presentation in 4th International Conference on Nanosciences & Nanotechnologies- NN07,* 16-18 July 2007, Thessaloniki, Greece
45. ***“Support mechanisms towards Commercialization of Nanotechnology Public Research”***  
M. Chachamidou, S. Logothetidis  
*Oral Presentation in 4th International Conference on Nanosciences & Nanotechnologies- NN07,* 16-18 July 2007, Thessaloniki, Greece
46. ***“Optical & Surface Properties of Spin-Coated PEDOT: PSS Thin Films”***  
S. Logothetidis, Ch. Evangelis, T. Altantzis, C. Gravalidis, D. Georgiou, S. Lousinian  
*Poster Presentation in 4th International Conference on Nanosciences & Nanotechnologies- NN07,* 16-18 July 2007, Thessaloniki, Greece
47. ***“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  
*Oral Presentation in EMRS Fall Meeting* September 17-21 2007, Warsaw, Poland
48. ***“Investigation of the effect of surface properties and stoichiometry on thrombogenicity of titanium nitride thin films”***

V.Karagkiozaki, S.Logotheidis, S.Lousinian, G.Giannoglou, N.Kalfagianis  
*Poster presentation in EMRS Fall Meeting 17 - 21 September 2007, Warsaw, Poland*

49. ***“In-situ and Real-time Protein Adsorption Study by Spectroscopic Ellipsometry”***  
S.Lousinian, S. Logotheidis  
*Oral presentation in EMRS Fall Meeting 17 - 21 September 2007, Warsaw, Poland*
50. ***“Real-time Fibrinogen Adsorption Study by Spectroscopic Ellipsometry”***  
S.Lousinian, S. Logotheidis  
*Poster presentation in the International Conference on Nanomedicine 9 – 11 September 2007, Chalkidiki, Greece*
51. ***“Nanodiamond formation in hydrogenated amorphous carbon thin films”***  
S.Kassavetis, S. Lousinian, S. Logotheidis, I.Tsiaoussis, N. Frangis  
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52. ***“Comparative Study of Nanoindentation Creep in Polymeric Materials”***  
I. Zyganitidis, S. Kassavetis, A. Laskarakis and S. Logotheidis  
*Poster Presentation in MRS Fall Meeting 2007, 27 – 2 December in Boston, MA, U.S.A.*
53. ***“Nanomechanical Properties of Treated Polymers”***  
S. Kassavetis, Ch. Gravalidis, A. Laskarakis and S. Logotheidis  
*Oral Presentation in MRS Fall Meeting 2007, 27 – 2 December in Boston, MA, U.S.A.*
54. ***“Electrical behaviour of LiCoO<sub>2</sub>/LiNbO<sub>3</sub> thin film structure”***  
V. Durman, V. Saly, J. Packa, E.E. Horopanitis, G. Perentzis and L. Papadimitriou  
*Proc. of 8<sup>th</sup> ABA (Advanced Batteries & Accumulators) Conf., June 2007, Brno-Czech Republic, p.31, 2007*
55. ***“Electrical properties of “Li-doped” LiNbO<sub>3</sub> ionic conductors and “Lithium-free” LiNbO<sub>3</sub>-electrolyte/Cu-anode bi-layers”***  
E.E. Horopanitis, G. Perentzis P. Karagiannidis and L. Papadimitriou  
*Proc. of 8<sup>th</sup> ABA (Advanced Batteries & Accumulators) Conference, June 2007, Brno-Czech Republic, p. 190, 2007*

56. ***“Microstructural Study of Super-hard Coatings with TEM and SEM”***  
D. Chaliampalias, G. Vourlias, N. Pistofidis, L. Kolaklieva, R. Kakanakov, I. Tsiaoussis, E. Pavlidou, G. Stergioudis, E.K. Polychroniadis  
*AIP Conference Proceedings* -- April 23, 2007 -- Volume **899**, pp. 455-456, *6th International Conference of the Balkan Physical Union*, (doi:10.1063/1.2733233)
57. ***“On the effect of zinc melt composition on the structure of hot-dip galvanized coatings”***  
S. Konidaris, N. Pistofidis, G. Vourlias, E. Pavlidou, A. Stergiou, G. Stergioudis, E. K. Polychroniadis  
*AIP Conference Proceedings* -- April 23, 2007 -- Volume **899**, p. 796, *6th International Conference of the Balkan Physical Union* (doi:10.1063/1.2733537)
58. ***“Structure analysis of corrosion resistant thermal sprayed coatings on low alloy steels”***  
D. Chaliampalias, G.Vourlias, N. Pistofidis, E. Pavlidou, A. Stergiou, G. Stergioudis, E.K. Polychroniadis  
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59. ***“Microscopical examination of Ancient silver coins”***  
N. Pistofidis, G. Vourlias, E. Pavlidou, T. Dilo, N.Civici, F.Stamati, Sh. Gjongecaj, I Prifti, O.Bilani, G. Stergioudis, E. K. Polychroniadis  
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60. ***“Microstructural study of zinc hot-dip galvanized coatings with titanium additions in zinc melt”***  
S. Konidaris, N. Pistofidis, G. Vourlias, E. Pavlidou, A. Stergiou, G. Stergioudis, E. K. Polychroniadis  
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