

## A. ΛΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΔΙΕΘΝΗ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ.

1. ***“Magnetic moments of Fe and Y in the FeBY glass forming system”***  
P. Pouloupoulos, S. Baskoutas, L.F Kiss, L. Bujdosó, T. Kemény, F. Wilhelm, A. Rogalev, V. Kapaklis, C. Politis, M. Angelakeris, K. Saksl,  
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2. ***“Magnetic, magneto-optic and magnetotransport properties of nanocrystalline Co/Au multilayers with ultrathin Au interlayers”***  
E. Th. Papaioannou, V. Karoutsos, M. Angelakeris, O. Valassiades, P. Fumagalli, N.K. Flevaris and P. Pouloupoulos  
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3. ***“Structural and magnetic features of heterogeneously nucleated Fe-oxide nanoparticles”***  
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4. ***“CoCr/Pt multilayers with adjustable perpendicular anisotropy”***  
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6. ***“Trapping in complex networks”***  
A. Kittas, S. Carmi, S. Havlin and P. Argyrakis  
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7. ***“The structural role of weak and strong links in a financial market network”***  
A. Garas, P. Argyrakis, S. Havlin  
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8. ***“Modelling of diffusion from equilibrium diffraction fluctuations in ordered phases”***

E. Arapaki, P. Argyrakis, and M. Tringides  
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9. **“Priority diffusion model in lattices and complex networks”**  
M. Maragakis, S. Carmi, D. ben- Avraham, S. Havlin and P. Argyrakis  
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10. **“Diffusion characteristics of particles on energetically disordered lattices”**  
P. Argyrakis, E. Arapaki, S.V. Dubinin, Y.G.Groda and V.S. Vikhrenko  
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11. **“Growth of  $\beta$ -FeSi<sub>2</sub> particles on silicon by reactive deposition epitaxy”**  
Vouroutzis, N., Zorba, T.T., Dimitriadis, C.A., Paraskevopoulos, K.M., Dózsa,L., Molnár, G.  
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12. **“Photoluminescence and optically detected magnetic resonance investigations of wurtzite phase 4H-SiC”**  
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13. **“Degradation of n-channel a-Si:H/nc-Si:H bilayer thin-film transistors under DC electrical stress**  
Arpatzanis, N., Hatzopoulos, A.T., Tassis, D.H., Dimitriadis, C.A., Templier, F., Oudwan, M., Kamarinos, G.  
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15. **“Stability of n-channel a-Si:H/nc-Si:H bilayer thin-film transistors under dynamic stress”**  
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19. ***“Threshold voltage model for short-channel undoped symmetrical double-gate MOSFETs”***  
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20. ***“Semianalytical modeling of short-channel effects in lightly doped silicon trigate MOSFETs”***  
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21. ***“Ideality factor dependence of capacitance and reverse current noise in Au/n-GaAs Schottky diodes with embedded self-assembled InAs quantum dots”***  
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22. ***“QD technology and market prospects in the sectors of space exploration, biomedicine, defense, and security”***  
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23. **“Comparison of two analog buffers implemented with low temperature polysilicon thin-film transistors for active matrix displays applications”**  
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24. **“Semianalytical modeling of short-channel effects in Si double gate, tri-gate and gate-all-around MOSFETs”**  
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25. **“Morphology, structure, chemical composition and light emitting properties of very thin anodic silicon films, fabricated using short monopulses of current”**  
S. Gardelis, A.G. Nassiopoulou, F. Petraki, S. Kennou, I. Tsiaoussis and N. Frangis  
*J. Appl. Phys.* **103**, 103536 (2008)
26. **“Structural, Microstructural and Magnetic Properties of Nanocomposite Isotropic Sm(Co<sub>0.1</sub>Fe<sub>0.1</sub>MyZr<sub>0.04</sub>B<sub>0.04</sub>)<sub>7.5</sub> Ribbons with M=Ni,Cu and y=0.09 and 0.12”**  
S. S. Makridis, I. Panagiotopoulos, I. Tsiaousis, N. Frangis, E. Pavlidou, K. Chrisafis, G. F. Papathanasiou, K. Efthimiadis, G. C. Hadjipanayis and D. Niarchos  
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27. **“Growth, optical and nanostructural properties of magnetron sputtered ZnO thin films deposited on polymeric substrates”**  
C. Koidis, S. Logothetidis, D. Georgiou, A. Laskarakis, S. Lousinian, I. Tsiaoussis and N. Frangis  
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28. **“Columnar growth of ultra-thin nanocrystalline Si films on quartz by Low Pressure Chemical Vapor Deposition: accurate control of vertical size”**  
Ch. B. Lioutas, N. Vouroutzis, I. Tsiaoussis, N. Frangis, S. Gardelis, A. G. Nassiopoulou  
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29. **“Self-assembled hexagonal ordering of Si nanocrystals embedded in SiO<sub>2</sub>**

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A. G. Nassiopoulou, V. Gianneta, M. Huffman, M. Reading, J. A. Van Den Berg, I. Tsiaoussis and N. Frangis  
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S.-L. Sahonta, Ph. Komninou, G. P. Dimitrakopoulos, C. Salcianu, E. J. Thrush, Th. Karakostas  
*Physica Status Solidi (a)* **205**, 2556-2559 (2008)

31. ***“Strain relaxation in AlN/GaN heterostructures grown by molecular beam epitaxy”***

G.P. Dimitrakopoulos, Ph. Komninou, Th. Kehagias, S.-L. Sahonta, J. Kioseoglou, N. Vouroutzis, I. Hausler, W. Neumann, E. Iliopoulos, A. Georgakilas, and Th. Karakostas  
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32. ***“Atomic-scale configuration of catalyst particles on GaN nanowires”***

Th. Kehagias, Ph. Komninou, G.P. Dimitrakopoulos, C. Chèze, L. Geelhaar, H. Riechert, and Th. Karakostas  
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33. ***“Defect characterization and analysis of III-V nanowires grown by Ni-promoted MBE”***

L. Lari, R.T. Murray, M.H. Gass, T. J. Bullough, P.R. Chalker, J. Kioseoglou, G.P. Dimitrakopoulos, Th. Kehagias, Ph. Komninou, Th. Karakostas, C. Chèze, L. Geelhaar, H. Riechert  
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34. ***“Step-induced misorientation of GaN grown on r-plane sapphire”***

J. Smalc-Koziorowska, G. P. Dimitrakopoulos, S.-L. Sahonta, G. Tsiakatouras, A. Georgakilas, and Ph. Komninou  
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J. Kioseoglou, G. P. Dimitrakopoulos, Ph Komninou, Th Karakostas, and E. C. Aifantis

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36. **“Effect of AlN interlayers in the structure of GaN-on-Si grown by plasma-assisted MBE”**  
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37. **“Nonsingular dislocation and crack fields: implications to small volumes”**  
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38. **“Study of InN/GaN interfaces using molecular dynamics”**  
J. Kioseoglou, E. Kalessaki, G. P. Dimitrakopoulos, Ph. Komninou, and Th. Karakostas  
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39. **“Crystallization of Amorphous Silicon Thin Films: Comparison Between Experimental and Computer Simulation Results”**  
J. Kioseoglou, Ph. Komninou, G. P. Dimitrakopoulos, I. P. Antoniadis, M.K. Hatalis and Th. Karakostas  
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40. **“Microstructure of defects in InGaN/GaN quantum well heterostructures”**  
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41. **“n-p transformation in TlBi<sub>1-x</sub>Sb<sub>x</sub>Te<sub>2</sub> system”**  
K.M. Paraskevopoulos, E.S. Vinga, E. Hatzikraniotis, M. Ozer, A. Anagnostopoulos, E.K. Polychroniadis  
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42. **“Synthetic Conditions and Their Doping Effect on  $\beta$ -K<sub>2</sub>Bi<sub>8</sub>Se<sub>13</sub>”**  
Th. Kyratsi, E. Kika, E. Hatzikraniotis, K.M. Paraskevopoulos, K. Chrissafis, M.G. Kanatzidis

43. **“Structural role and coordination environment of Fe in Fe<sub>2</sub>O<sub>3</sub>-PbO-SiO<sub>2</sub>-Na<sub>2</sub>O composite glasses”**  
F. Pinakidou, M. Katsikini, P. Kavouras, F. Komninou, Th. Karakostas, E.C. Paloura  
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44. **“X-ray absorption fine structure study of In implanted GaN:Effect of annealing”**  
M. Katsikini, F. Pinakidou, E. C. Paloura, F. Boscherini, E. Wendler, W. Wesch  
*Materials Science & Engineering B*, **152**, 132 (2008)
45. **“Temperature dependent EXAFS of InN”**  
M. Katsikini, F. Pinakidou, E. C. Paloura, Ph. Komninou, A. Georgakilas, E. Welter  
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46. **“Effect of composition in the bonding environment of In in InAlN and InGaN epilayers”**  
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47. **“Effect of annealing on the structural role of Fe in composite Fe- and Zn-rich materials: a XAFS study”**  
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48. **“Determination of the crystallization ratio in a series of Fe-containing vitroceraic products by means of XAFS spectroscopies”**  
F. Pinakidou, M. Katsikini, E. C. Paloura  
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49. **“Controlled growth of porous networks in phosphide semiconductors”**  
A. Delimitis, Ph. Komninou, Th. Kehagias, E. Pavlidou, Th. Karakostas, P. Gladkov, D. Nohavica

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50. **“Interface controlled active fracture modes in glass-ceramics”**  
P. Kavouras, Th. Kehagias, Ph. Komninou, K. Chrissafis, C. Charitidis, Th. Karakostas  
*Journal of Materials Science* **43**, Iss. 11, 3954-3959 (2008).
51. **“Micropore modification in InP”**  
D. Nohavica, P. Gladkov, Z. Jarchovský, J. Zelinka, Ph. Komninou, A. Delimitis, Th. Kehagias, and Th. Karakostas  
*Physica Status Solidi (a)* **205**, Iss. 11, 2577 (2008).
52. **“Photochromic behaviour of spiropyran in polystyrene and polycaprolactone thin films: effect of UV absorber and antioxidant compound”**  
A. Samoladas, D. Bikiaris, T. Zorba, K. Paraskevopoulos, A. Jannakoudakis  
*Dyes and Pigments* **76**, 386 (2008)
53. **“Studying Wall Paintings in Berati Castle (Albania): Comparative Examination of Materials and Techniques in XIVth and XVIth Century Churches”**  
N. Civici, M. Anastasiou, T. Zorba, K. M. Paraskevopoulos, T. Dilo, F. Stamati, M. Arapi  
*Journal of Cultural Heritage* **9**, 207 (2008)
54. **“Nanocomposites of isotactic poly(propylene) with carbon nanoparticles exhibiting enhanced stiffness, thermal stability and gas barrier properties”**  
A. Vassiliou, D. Bikiaris, K. Chrissafis, K. M. Paraskevopoulos, S.Y. Stavrev, A. Docoslis  
*Composites Science and Technology* **68**, 933 (2008)
55. **“Studying Dental Ceramic-Bioactive Glass Composites”**  
E. Kontonasaki, N. Kantiranis, X. Chatzistavrou, L. Papadopoulou, K.M. Paraskevopoulos, P. Koidis  
*Key Engineering Materials* 361-363, 881 (2008)
56. **“Combined FTIR and SEM-EDS Study of Bi<sub>2</sub>O<sub>3</sub> Doped ZnO-SnO<sub>2</sub> Ceramics”**  
T. Ivetić, M. V. Nikolić, K. M. Paraskevopoulos, E. Pavlidou, T. T. Zorba, P. M. Nikolić, M. M. Ristić  
*Journal of Microscopy* **232**, 498 (2008)



57. ***“Far infrared reflectivity spectra of lead-telluride doped with Ytterbium”***  
P.M. Nikolic, D. Lukovic, S.S. Vujatovic, K. Paraskevopoulos, M.V. Nikolic, V. Blagojevic, T.T. Zorba, B. Stamenovic, W. König  
*J. of Alloys and Compounds* **466**, 319 (2008)
58. ***“Urea- Formaldaehyde resins characterization by FTIR and TG-DTA”***  
T. Zorba, E. Papadopoulou, A. Hatjiissaak, K.M. Paraskevopoulos, K. Chrissafis  
*Journal of Thermal Analysis and Calorimetry* **92**, 29 (2008)
59. ***“Infrared reflection spectroscopy of Zn<sub>2</sub>SnO<sub>4</sub> thin films deposited on silica substrate by radio frequency magnetron sputtering”***  
M. V. Nikolic, K. Satoh, T. Ivetic, K. M. Paraskevopoulos, T. T. Zorba, V. Blagojevic, L. Mancic, P. M. Nikolic  
*Thin Solid Films* **516**, 6293 (2008)
60. ***“Crystal/Glass Phase Change in K<sub>1-x</sub>Rb<sub>x</sub>Sb<sub>5</sub>S<sub>8</sub> (x = 0.25, 0.5, 0.75) Studied through Thermal Analysis Techniques”***  
A. Kaidatzis, J.B. Wachter, K. Chrissafis, K.M. Paraskevopoulos, M. G. Kanatzidis  
*J. of Non-Crystalline solids* **354**, 3643 (2008)
61. ***“Effect of acid-treated multi wall carbon nanotubes on the mechanical, permeability, thermal properties and thermo-oxidative stability of isotactic polypropylene”***  
D. Bikiaris, A. Vassiliou, K. Chrissafis, K. M. Paraskevopoulos, A. Jannakoudakis and A. Docoslis  
*Polymer Degradation and Stability* **93**, 952 (2008)
62. ***“Microstructural characterization and comparative evaluation of physical, mechanical and biological properties of three ceramics for metal-ceramic restorations”***  
E. Kontonasaki, N. Kantiranis, L. Papadopoulou, X. Chatzistavrou, T. Zorba, A. Sivropoulou, K. Chrissafis, K. M. Paraskevopoulos, P. T. Koidis  
*Dental Materials* **24**, 1362 (2008)
63. ***“Substitution of Bi for Sb and its Role in the Thermoelectric Properties and Nanostructuring in Ag<sub>1-x</sub>Pb<sub>18</sub>MTe<sub>20</sub> (M = Bi, Sb) (x = 0, 0.14, 0.3)”***  
Mi-Kyung Han, Khang Hoang, Huijun Kong, Robert Pcionek, Ctirad Uher,

Konstantinos M. Paraskevopoulos, S.D. Mahanti, Merkouri G. Kanatzidis  
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64. **“Far infrared properties of PbTe doped with Bismuth”**  
P.M. Nikolic, K.M. Paraskevopoulos, S.S. Vujatovic, A. Bojicic, T.T. Zorba, M.V. Nikolic, B. Stamenovic, T. Ivetic, V. Blagojevic  
*Journal of Materials Science* **43**, 5516 (2008)
65. **“Thermal and dynamic mechanical behavior 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  
*J of Applied Polymer Science* **110**, 1739 (2008)
66. **“Far infrared study of local impurity modes of Gd doped PbTe”**  
P.M. Nikolic, K.M. Paraskevopoulos, S.S. Vujatovic, M.V. Nikolic, A. Bojicic, T. Zorba, B. Stamenovic, V. Blagojevic, M. Jovic, M. Dasic, W. König  
*Materials Chemistry and Physics* **112**, 496 (2008)
67. **“Far infrared reflectance of sintered Zn<sub>2</sub>TiO<sub>4</sub>”**  
M. V. Nikolić, N. Obradović, K. M. Paraskevopoulos, T. T. Zorba, S. M. Savić, M. M. Ristić  
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68. **“Far infrared spectroscopy of Pb<sub>0.85</sub>Sn<sub>0.15</sub>Te alloy doped with Ni”**  
Pantelija M. Nikolić, Stevan S.Vujatović, Danijela Luković Golić, Nebojša J. Labus, Konstantinos M. Paraskevopoulos, Kostas T. Zorbas, MariaVesna Nikolić, Aleksandar Bojičić, Vladimir Blagojević, Wolfgang König  
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69. **“Surface modification of poly(ethylene terephthalate) polymeric films for flexible electronics applications”**  
A. Laskarakis, S. Logothetidis, S. Kassavetis, E. Papaioannou  
*Thin Solid Films*, Volume **516**, Issue 7, Pages 1443-1448 (2008)
70. **“Optical and structural properties of ZnO for transparent electronics”**  
S. Logothetidis, A. Laskarakis, S. Kassavetis, S. Lousinian, C. Gravalidis, G. Kiriakidis  
*Thin Solid Films*, Volume **516**, Issue 7, Pages 1345-1349 (2008)

71. ***“Nanoparticle formation by the debris produced by femtosecond laser ablation of silicon in ambient air”***  
N.G. Semaltianos, W. Perrie, V. Vishnyakov, R. Murray, C.J. Williams, S.P. Edwardson, G. Dearden, P. French, M. Sharp, S. Logothetidis, K.G. Watkins  
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72. ***“Different nanostructures identified in boron nitride thin films grown on Si (100) by rf magnetron sputtering”***  
N. Frangis, I. Tsiaoussis, Y. Panayiotatos, S. Logothetidis  
*Diamond and Related Materials*, In Press, (2008)
73. ***“AFM study of the thrombogenicity of carbon-based coatings for cardiovascular applications”***  
V. Karagiozaki, S. Logothetidis, A. Laskarakis, G. Giannoglou, S. Lousinian  
*Materials Science and Engineering: B*, Volume **152**, Issues 1-3, 25 Pages 16-21 (2008)
74. ***“Albumin and fibrinogen adsorption on boron nitride and carbon-based thin films”***  
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75. ***“In-situ and real-time protein adsorption study by Spectroscopic Ellipsometry”***  
S. Lousinian, S. Logothetidis  
*Thin Solid Films*, Volume **516**, Issue 22, Pages 8002-8008 (2008)
76. ***“Trapping and release of impurities in TiN: A first-principles study”***  
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77. ***“Femtosecond laser ablation characteristics of nickel-based superalloy C263”***  
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78. ***“II-VI semiconductor nanoparticles synthesized by laser ablation”***  
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79. ***“Flexible organic electronic devices: Materials, process and applications”***  
Logothetidis, S.  
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80. ***“Atomic force microscopy probing platelet activation behavior on titanium nitride nanocoatings for biomedical applications”***  
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81. ***“Spin-off creation behaviour of universities and research institutions : an initial approach for nanotechnology”***  
M. Chachamidou, S. Logothetidis  
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82. ***“Growth mechanisms of silicon oxide nano-layers grown onto polymeric substrates for flexible electronics applications”***  
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83. ***“Real-time spectroscopic ellipsometry for protein adsorption study and pH effect”***  
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84. ***“In-situ and real-time investigation of ZnO thin films growth onto rigid and flexible substrates”***  
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87. ***“Correlation between structural and electrical properties of heavily lithiated boron oxide solid electrolytes”***  
E. E. Horopanitis, G. Perentzis, A. Beck, L. Guzzi, G. Peto and L. Papadimitriou  
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88. ***“Ion transport through  $\text{LiCoO}_2/x\text{Li}_2\text{O-B}_2\text{O}_3$  thin film bi-layers”***  
E. E. Horopanitis, G. Perentzis, E. Pavlidou and L. Papadimitriou  
*J. Non-Cryst. Solids* **354**, 386 (2008)
89. ***“Modified  $\pi$ -states in ion irradiated carbon”***  
G. Kovach, A. Karacs, G. Radnoczi, H. Csorbai, L. Guzzi, M. Veres, M. Koos, L. Papadimitriou, A. Solyom and G. Peto  
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93. ***“Mechanical alloying synthesis of  $\text{K}_2\text{Bi}_8\text{Se}_{13}$ - type solid solutions”***  
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D. Chaliampalias, G. Vourlias, N. Pistofidis, G. Stergioudis, E.K. Polychroniadis  
*Physica Status Solidi (a)* **205** (2008) 1566-1571
96. ***“Microstructural phenomena controlling losses in NiCuZn-Ferrites as studied by Transmission Electron Microscopy”***  
D. Sakellari, V. Tsakaloudi, E.K. Polychroniadis, V. Zaspalis  
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97. ***“Microstructural investigation of 3C-SiC islands grown by VLS mechanism on 6H-SiC substrate”***  
A. Andreadou, M. Soueidan, I. Tsiaoussis, E.K. Polychroniadis, G. Ferro, N. Frangis  
*J. Crystal Growth* **310** (2008) 1799-1803
98. ***“Prospects for 3C-SiC bulk crystal growth”***  
D. Chaussende, F. Mercier, A. Boulle, F. Conchon, M. Soueidan, G. Ferro, A. Mantzari, A. Andreadou, E.K. Polychroniadis, C. Balloud, S. Juillaguet, J. Camassel, M. Pons  
*J. Crystal Growth* **310** (2008) 976-981
99. ***“High pressure Raman studies of carbon nanotube”***  
D. Christofilos, J. Arvanitidis, E. Efthimiopoulos, X. Zhao, Y. Ando, T. Takenobu, Y. Iwasa, H. Kataura, S. Ves, and G. A. Kourouklis  
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100. ***“Structural support of the external tubes in double-wall carbon nanotubes”***  
J. Arvanitidis, D. Christofilos, G. A. Kourouklis, S. Ves, T. Takenobu, Y. Iwasa, and H. Kataura  
*High Pressure Research*, **28**, 591-595 (2008)
101. ***“Mechanism and kinetics of the formation of zinc pack coatings”***

G. Vourlias, N. Pistofidis, K. Chrissafis, El. Pavlidou, G. Stergioudis  
*J. Therm. Anal. Calorim.*, **91** (2008) 497

102. ***“High – temperature oxidation of precipitation hardening steel”***

G. Vourlias, N. Pistofidis, K. Chrissafis  
*Thermochimica Acta*, **478** (2008) 28

103. ***“High temperature oxidation and corrosion in marine environments of thermal spray deposited coatings”***

D. Chaliampalias, G. Vourlias, E. Pavlidou, G. Stergioudis, S. Skolianos, K. Chrissafis  
*Applied surface Science*, **255** (2008) 3104

104. ***“Synthesis and characterization of inverse spinel  $\text{LiNiVO}_4$  and  $\text{LiCoVO}_4$  with impedance Spectroscopy”***

A. Kazakopoulos, Ch. Sarafidis, K. Chrissafis, O. Kalogirou  
*Solid State Ionics*, **179** (2008) 1980

105. ***“Interatomic potential calculations of III(Al,In)-N planar defects with a III-species environment approach”***

Kioseoglou, Ph Komninou and Th Karakostas  
*Phys. stat. sol. (b)* **245** (2008) 1118–1124

106. ***“Electron microscopy investigation of extended defects in non-polar gallium nitride layers deposited on r-plane sapphire”***

J.Smalc-Koziorowska, Ph. Komninou, S.-L. Sahonta, J. Kioseoglou, G. Tsiakatouras, A.Georgakilas  
*Phys. stat. sol (c)* **5** (12), (2008) 3748–3751 / DOI 10.1002/pssc.200780211

107. ***“Enhanced Efficiency in Ultrathin InGaN/GaN Quantum Wells”***

S.-L. Sahonta, Ph. Komninou, G. P. Dimitrakopoulos, C. Salcianu, E. J. Thrush and Th. Karakostas  
*Phys. stat. sol (a)* in press 2008

108 ***“Fano effect in quasi-one-dimensional wires with short- or finite-range impurities”***

Vassilios Vargiamidis, Philomela Komninou and Hariton M. Polatoglou  
*Phys. stat. (c)* **5**, (2008) 3813–3817 / DOI 10.1002/pssc.200780131

109. ***“Effects of stress-relieving AlN interlayers in GaN-on-Si grown by plasma-assisted molecular beam epitaxy”***

Adikimenakis A, Sahonta, S.-L., Dimitrakopoulos, G., Domagala, J., Komninou, P., Georgakilas, A

*MRS Symposium Proceedings* Vol. **1068** (2008) 153-158

**B. ΣΥΜΜΕΤΟΧΕΣ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΑ ΣΥΝΕΔΡΙΑ.**

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

1. ***“Surface/Interface induced phenomena on Fe-based nanoparticles”***

S. Mourdikoudis, K. Simeonidis, K. Gloystein, I. Tsiaoussis, M. Angelakeris, O. Kalogirou, A. Rogalev and F. Wilhelm

*Winter School on Physics of Advanced Materials*, Thessaloniki, 14-18 January 2008.

2. ***“Shape and composition oriented synthesis of Cobalt nanoparticles”***

K. Simeonidis, S. Mourdikoudis, A. Vilalta-Clemente, I. Tsiaoussis, M. Angelakeris, and O. Kalogirou

*Winter School on Physics of Advanced Materials*, Thessaloniki, 14-18 January 2008.

3. ***“The effect of composition and structural ordering on the magnetism of XPt (X= Fe, Co, Mn) nanoparticles”***

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

*1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems*, Halkidiki, 16-18 June 2008.

4. ***“Tuning the perpendicular magnetic anisotropy of CoCr layers in multilayered systems”***

M. Kopsidis, I. Tsiaoussis, E. Th. Papaioannou, M. Angelakeris, P. Pouloupoulos, O. Kalogirou and N. K. Flevaris

*1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems*, Halkidiki, 16-18 June 2008.

5. ***“Influence of synthesis conditions on structural and magnetic properties of CoPt-nanostructures”***



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

*1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems*, Halkidiki, 16-18 June 2008.

6. ***“Colloidal Co magnetic nanoparticles: synthesis, structure and morphology”***

A. Vilalta-Clemente, S. Soumelidis, S. Mourdikoudis, I. Tsiaoussis, K. Simeonidis, C. Dendrinou-Samara, M. Angelakeris, O. Kalogirou

*1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems*, Halkidiki, 16-18 June 2008.

7. ***“Magnetic features of Cobalt nanoparticles suitable for diverse technological applications”***

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

*1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems*, Halkidiki, 16-18 June 2008.

8. ***“Towards the study of Mn-Pt nanoparticles prepared by various chemical routes”***

S. Mourdikoudis, A. Shavel, K. Simeonidis, C. Dendrinou-Samara, M. Angelakeris, O. Kalogirou & L. Liz-Marzan

*1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems*, Halkidiki, 16-18 June 2008.

9. ***“Structural and magnetic features of nanocrystalline Au/Co multilayers”***

A. Xatzipavlidis, M. Liber, E.Th. Papaioannou, M. Angelakeris, I. Tsiaoussis, O. Valassiades, P. Pouloupoulos, V. Karoutsos and N. K. Flevaris

*1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems*, Halkidiki, 16-18 June 2008.

10. ***“Magnetic Force Microscopy on Co/Pt multilayers”***

V. Karoutsos, P. Pouloupoulos, M. Angelakeris, E. Th. Papaioannou, P. Fumagalli and N.K. Flevaris

*Moscow International Conference on Magnetism*, Moscow-Russia, 24-26 June 2008.

11. ***“Pt/X/Pt (X=SmCo, FeCo) magnetic trilayers with adjustable structural and magnetic features”***

I. Siskos, I. Tsiaoussis, K. Simeonidis, M. Angelakeris and O. Kalogirou

5<sup>th</sup> *International Conference on Nanosciences & Nanotechnologies*, Thessaloniki, 14-16 July 2008.

12. ***“Structural and magnetic studies of chemically synthesized CoPt-nanostructures”***  
K. Gloystein, K. Simeonidis, I. Tsiaoussis, S. Mourdikoudis, C. Dendrinou-Samara, M. Angelakeris, O. Kalogirou  
5<sup>th</sup> *International Conference on Nanosciences & Nanotechnologies*, Thessaloniki, 14-16 July 2008.
13. ***“Colloidal Co magnetic nanoparticles: synthesis and morphology characterization”***  
A. Vilalta-Clemente, S. Soumelidis, S. Mourdikoudis, I. Tsiaoussis, K. Simeonidis, V. Karoutsos, P. Pouloupoulos, C. Dendrinou-Samara, M. Angelakeris, O. Kalogirou  
5<sup>th</sup> *International Conference on Nanosciences & Nanotechnologies*, Thessaloniki, 14-16 July 2008.
14. ***“Surface magnetism and interface effects on Cobalt nanoparticles”***  
K. Simeonidis, S. Mourdikoudis, C. Dendrinou-Samara, M. Angelakeris and O. Kalogirou  
5<sup>th</sup> *International Conference on Nanosciences & Nanotechnologies*, Thessaloniki, 14-16 July 2008.
15. ***“The Cr alloying influence in magnetic features in CoCr/Pt multilayers”***  
M. Kopsidis, E. Th. Papaioannou, P. Pouloupoulos, M. Angelakeris, F. Wilhelm, A. Rogalev, O. Kalogirou and N.K. Flevaris  
5<sup>th</sup> *International Conference on Nanosciences & Nanotechnologies*, Thessaloniki, 14-16 July 2008.
16. ***“High magnetization particles coated with inorganic magnesia for biomedicine, catalysis and spintronics applications”***  
C. Martinez-Boubeta, Ll. Balcells, R. Cristòfol, C. Sanfeliu, Ll. Casas, F. Sandiumenge, A. Calleja, M. Angelakeris, J. Santiso, C. Monty, B. Martínez  
*Trends in Nanotechnology 2008 (TNT2008)*, Oviedo-Spain, 01-05 September 2008.
17. ***“Magnetic hardening of two-dimensional CoPt nanoparticle arrays”***  
S. Mourdikoudis, K. Gloystein, K. Simeonidis, I. Tsiaoussis, C. Dendrinou-Samara, M. Angelakeris and O. Kalogirou  
20<sup>th</sup> *Workshop on Rare Earth Permanent Magnets and Applications*, Iraklion, 8-10

September 2008.

18. ***“Magnetic properties of surfactant assisted high-energy ball-milled Nd<sub>2</sub>Fe<sub>14</sub>B nanoparticles”***  
K. Simeonidis, S. Mourdikoudis, M. Angelakeris and O. Kalogirou  
*Ball-milling in 20<sup>th</sup> Workshop on Rare Earth Permanent Magnets and Applications*, Iraklion, 8-10 September 2008.
19. ***“Controlling the crystal structure of Ni nanoparticles by the use of alkylamines”***  
S. Mourdikoudis, K. Simeonidis, M. Angelakeris, A. Vilalta-Clemente, C. Dendrinou-Samara, F. Tuna, O. Kalogirou  
*Joint European Magnetic Symposiums*, Dublin-Ireland, 14-19 September 2008.
20. ***“Influence of multilayer modulation on structural and magnetic features in the Pt/SmCo system”***  
I. Siskos, M. Angelakeris, K. Simeonidis, I. Tsiaoussis, A. Delimitis and O. Kalogirou  
*Joint European Magnetic Symposiums*, Dublin-Ireland, 14-19 September 2008.
21. ***“Trapping in complex networks”***  
A. Kittas, S. Carmi, S. Havlin and P Argyrakis  
*The 5<sup>th</sup> European Conference on Complex Systems (ECCS08)*, Jerusalem, Israel, September 14-19, 2008.
22. ***“The structural role of weak and strong links in a financial market network”***  
A. Garas, P. Argyrakis, and S. Havlin  
*The 5th European Conference on Complex Systems Jerusalem*, September 14-19, 2008
23. ***“Particle diffusion on 1-dimensional lattices at very high densities”***  
C.Batistakis and P.Argyrakis  
*Balkan Physical Union 2nd International Physics Projects Competition for University Students (SPCBPU-2)*, Bodrum, Turkey, August 18-20, 2008
24. ***“Random Matrix Theory and financial Markets: application to Athens Stock Exchange” and “Investigating properties of financial market networks”***  
A.Garas and P.Argyrakis  
*Balkan Physical Union 2nd International Physics Projects Competition for*

*University Students (SPCBPU-2), Bodrum, Turkey, August 18-20, 2008*

25. ***“Trapping in complex networks”***  
A. Kittas, S. Carmi, S. Havlin and P Argyrakis  
*Balkan Physical Union 2nd International Physics Projects Competition for University Students (SPCBPU-2), Bodrum, Turkey, August 18-20, 2008*
26. ***“Silicon carbide modulated structures as a result of the introduction of 8H bands in a 4H matrix”***  
N. Frangis, M. Marinova, I. Tsiaoussis, E.K. Polychroniadis, T. Robert, S. Juillaguet, J. Camassel  
*Proc. of the 14th European Microscopy Congress, Aachen, Germany, 1-5 September 2008, Vol. 2, p. 57-58*
27. ***“Searching for Ge clusters inside 3C-SiC Layers Grown by Vapor-Liquid-Solid Mechanism on 6H-SiC substrates”***  
M. Marinova, I. Tsiaoussis, N. Frangis, E.K. Polychroniadis, O. Kim-Hak, J. Lorenzzi and G. Ferro  
*7th European Conference on Silicon Carbide and related materials Congress, Barcelona, Spain, 7-11 September 2008*
28. ***“Residual strain variations in MBE-grown InN thin films”***  
A. Delimitis, Ph. Komninou, J. Arvanitidis, M. Katsikini, S.-L. Sahonta, E. Dimakis, S. Ves, E. C. Paloura, F. Pinakidou, G. Nouet A. Georgakilas and Th. Karakostas  
*Proceedings of the XV Conference on Microscopy of Semiconducting Materials, Cambridge, UK, April 2007, Springer Proceedings in Physics, Vol. 120, A.G. Cullis & P.A. Midgley (Eds.), 2008*
29. ***“Microstructure of defects in InGaN/GaN quantum well heterostructures”***  
S.-L. Sahonta, Ph. Komninou, G.P. Dimitrakopoulos, Th. Kehagias, J. Kioseoglou, Th. Karakostas, C. Salcianu and E.J. Thrush  
*Proceedings of the Electron Microscopy and Analysis Group Conference 2007 (EMAG07), Glasgow, UK, September 2007, Journal of Physics: Conference Series, Vol. 126, 2008, art. No 012048.*
30. ***“Electronic structure of 1/6 [20-23] partial dislocations in wurtzite GaN”***  
J. Kioseoglou, E. Kalessaki, L. Lymberakis, Ph. Komninou, and Th. Karakostas  
*Proceedings of the International Workshop on Nitride semiconductors Montreaux, Switzerland, 6-10 October 2008*

31. ***“III-nitride quantum dot chemical sensors”***  
M. Eickhoff, O. Weidemann, E. Monroy, G. Mueller, A. Friedberger, Ph. Komninou, and M. Stutzmann  
*Proceedings of the International Workshop on Nitride semiconductors* Montreaux, Switzerland, 6-10 October 2008
32. ***“Energetic of oxygen adsorption and incorporation at InN polar surfaces: A first principles study”***  
A. Belabbes, J. Kioseoglou, P. Komninou, and T. Karakostas  
*Proceedings of the International Workshop on Nitride semiconductors* Montreaux, Switzerland, 6-10 October 2008
33. ***“Plasma Assisted Molecular Beam Epitaxy of a-plane GaN on r-plane Sapphire”***  
G. Tsiakatouras, J. Smalc-Koziorowska, K. Tsagaraki, M. Androulidaki, G. P. Dimitrakopoulos, Ph. Komninou, and A. Georgakilas  
*Proceedings of the International Workshop on Nitride semiconductors* Montreaux, Switzerland, 6-10 October 2008
34. ***“Nanoscale Analysis of Interfaces Between GaN Nanowires and Si(111) and Si(001) Substrates”***  
Ph. Komninou, Th. Kehagias, G. P. Dimitrakopoulos, H. Kirmse, W. Neumann, C. Chèze, L. Geelhaar, H. Riechert, and T. Karakostas  
*Proceedings of the International Workshop on Nitride semiconductors* Montreaux, Switzerland, 6-10 October 2008
35. ***“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  
*Proceedings of the XV Conference on Microscopy of Semiconducting Materials*, Cambridge, UK, April 2007, Springer Proceedings in Physics, Vol. **120**, A.G. Cullis & P.A. Midgley (Eds.), 2008, pp. 225-228.
36. ***“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. -L. Sahonta, E. Iliopoulos, A. Georgakilas, and Th. Karakostas  
*Proceedings of the XV Conference on Microscopy of Semiconducting Materials*,

Cambridge, UK, April 2007, Springer Proceedings in Physics, Vol. **120**, A.G. Cullis & P.A. Midgley (Eds.), 2008, pp. 66-68.

37. ***“Exsolution phenomena in glass-ceramic systems”***

I. Tsilika, Ph. Komninou, G.P. Dimitrakopoulos, Th. Kehagias and Th. Karakostas  
*Proceedings of the 14<sup>th</sup> European Microscopy Congress 2008 (EMC2008)*, Aachen, Germany, September 2008, S. Richter, A. Schwedt (Eds.), Vol **2**: Materials Science, pp. 537-538, DOI: 10.1007/ 978-3-540-85226-1\_269, Springer-Verlag, Berlin Heidelberg 2008.

38. ***“Misfit analysis of the InN/GaN interface through HRTEM image simulations”***

J. Kioseoglou, G.P. Dimitrakopoulos, Th. Kehagias, E. Kalessaki, Ph. Komninou, and Th. Karakostas  
*Proceedings of the 14<sup>th</sup> European Microscopy Congress 2008 (EMC2008)*, Aachen, Germany, September 2008, S. Richter, A. Schwedt (Eds.), Vol **2**: Materials Science, pp. 651-652, DOI: 10.1007/ 978-3-540-85226-1\_326, Springer-Verlag, Berlin Heidelberg 2008.

39. ***“A method for atomistic/continuum analysis of defects in large HRTEM images”***

A. Belkadi, G.P. Dimitrakopoulos, J. Kioseoglou, G. Jurczak, T.D. Young, P. Dluzewski, and Ph. Komninou  
*Proceedings of the 14<sup>th</sup> European Microscopy Congress 2008 (EMC2008)*, Aachen, Germany, September 2008, S. Richter, A. Schwedt (Eds.), Vol **2**: Materials Science, pp. 639-640, DOI: 10.1007/ 978-3-540-85226-1\_320, Springer-Verlag, Berlin Heidelberg 2008.

40. ***“Microstructure and growth model of MBE-grown InAlN thin films”***

S.-L. Sahonta, A. Adikimenakis, G.P. Dimitrakopoulos, Ph. Komninou, H. Kirmse, E. Pavlidou, E. Iliopoulos, A. Georgakilas, W. Neumann and Th. Karakostas  
*Proceedings of the 14<sup>th</sup> European Microscopy Congress 2008 (EMC2008)*, Aachen, Germany, September 2008, S. Richter, A. Schwedt (Eds.), Vol **2**: Materials Science, pp. 55-56, DOI: 10.1007/ 978-3-540-85226-1\_28, Springer-Verlag, Berlin Heidelberg 2008.

41. ***“Epitaxial orientations of GaN grown on R-plane sapphire”***

J. Smalc-Koziorowska, G.P. Dimitrakopoulos, Ph. Komninou, Th. Kehagias, S.-L. Sahonta, G. Tsiakatouras and A. Georgakilas  
*Proceedings of the 14<sup>th</sup> European Microscopy Congress 2008 (EMC2008)*, Aachen,

Germany, September 2008, S. Richter, A. Schwedt (Eds.), Vol 2: Materials Science, pp. 53-54, DOI: 10.1007/978-3-540-85226-1\_27, Springer-Verlag, Berlin Heidelberg 2008.

42. ***“Mechanical Alloying Synthesis of  $K_2Bi_8Se_{13}$  – type Solid Solutions”***  
N. Toumpas, Th. Kyratsi, E. Hatzikraniotis, A. Tsiappos, E. Pavlidou, K.M. Paraskevopoulos, D-Y Chung and M.G. Kanatzidis  
*Mater. Res. Soc. Proc.* vol. **1044** p.1044-U03-07 (2008)
43. ***“Power and Efficiency calculation and evaluation of material properties in Thermoelectric Power Generators”***  
K. Zorbas, E. Hatzikraniotis, K.M. Paraskevopoulos  
*Mater. Res. Soc. Proc.* vol. **1044** p.1044-U09-15 (2008)
44. ***“Application of the Thermal Quadropole Method in the characterization of thermoelectric materials”***  
E. Hatzikraniotis, I. Samaras, D. Georgakaki, K.M. Paraskevopoulos  
*Mater. Res. Soc. Proc.* vol. **1044** p.1044-U09-14 (2008)
45. ***“Characterization and in vitro bioactivity study of ternary glass-ceramic coatings”***  
X. Chatzistavrou, E. Kontonasaki, N. Kantiranis, L. Papadopoulou, P. Koidis, E. Hatzikraniotis, K.M. Paraskevopoulos  
*Mater. Res. Soc. Proc.* vol. **1054** p.1054-FF05-29 (2008)
46. ***“Study of Painting Materials and Techniques in the 18th Century St.Athanasius Church in Moschopolis, Albania”***  
E. Pavlidou, N. Civici, E. Caushi, L. Anastasiou, T. Zorba, E. Hatzikraniotis, and K. M. Paraskevopoulos  
*Mater. Res. Soc. Proc.* vol. **1047**, p.1047-Y03-05
47. ***“Painted Decoration Studies in a Fourth Century BC Vergina Tomb”***  
E. Pavlidou, A. Kyriakou, E. Mirtsou, L. Anastasiou, T. Zorba, E. Hatzikraniotis and K. M. Paraskevopoulos  
*Mater. Res. Soc. Proc.* vol. **1047**, p.1047-Y03-04
48. ***“Material degradation of Thermoelectric Power Generators (TEG) for use in automobile”***  
E. Hatzikraniotis, K. Zorbas and K. M. Paraskevopoulos

*Presented in E-MRS 2008 Spring Meeting, (symposium M: Unconventional thermoelectrics) Strasbourg (France) May 26 - 30, 2008.*

49. ***“SEM and Infrared Spectroscopic scan in  $AgPb_{18-x}SbTe_{20}$  (LAST-18) materials”***  
Th. Hasapis, E. Hatzikraniotis, M.-K. Han, D.Y. Chung, E. Pavlidou, Th. Kyratsi, K.M. Paraskevopoulos, M.G. Kanatzidis  
*Presented in E-MRS 2008 Spring Meeting, (symposium M: Unconventional thermoelectrics) Strasbourg (France) May 26 - 30, 2008.*
  
50. ***“On the effect of ball milling on the properties of thermoelectric material  $K_2Bi_8Se_{13}$ ”***  
Th. Kyratsi, M. Ioannou, E. Hatzikraniotis, J. Tsiaousis, D.Y. Chung and K.M. Paraskevopoulos  
*Presented in E-MRS 2008 Spring Meeting, (symposium M: Unconventional thermoelectrics) Strasbourg (France) May 26 - 30, 2008.*
  
51. ***“Study of Thermoelectric Power Generators and Application in a Small Sized Car”***  
E. Hatzikraniotis, K. Zorbas, I. Triandafyllis, K. M. Paraskevopoulos  
*Proceedings of the 6th European Conference on Thermoelectrics (July 2 - 4, 2008) Paris, France p. P2-18-1*
  
52. ***“Development and Characterization of Metallic Hall Sensors”***  
M. Gioti, D. Giannakis, E. Hatzikraniotis  
*NN-08, Thessaloniki, (2008)*
  
53. ***“A blended learning approach with the use of web-based video-measurements to the study of high school kinematics”***  
M. Tsakiri and E. Hatzikraniotis  
*Presented on GIREP-08 International Conference, Cyprus (2008)*
  
54. ***“Developing an ICT-based Inquiry-oriented Teaching-Learning Sequence about the Thermal properties of Materials, in the context of the European Project on Material Science”***  
D. Psillos, E. Hatzikraniotis, A. Molohidis, M. Kallery, A. Barbas, G. Bisdikian, I. Lefkos  
*Presented on GIREP-08 International Conference, Cyprus (2008)*



55. ***“A detailed XRD and FTIR analysis of Bi<sub>2</sub>O<sub>3</sub> doped ZnO-SnO<sub>2</sub> ceramics”***  
T. Ivetic, M.V. Nikolic, K.M. Paraskevopoulos, V. Blagojevic, P.M. Nikolic, M.M. Ristic  
*Proceedings of the 2nd International Congress on Ceramics*, Verona, Italy, June 29 – July 4, 2008 p. 6-P123-ID553
56. ***“Pseudomonas sp influences the formation of hydroxyapatite and degrades bioactive glass”***  
E.P. Papadopoulou, L. Papadopoulou, K. Paraskevopoulos, P. Koidis, A. Sivropoulou  
*5th International Conference on Nanosciences & Nanotechnologies - NN08* (Book of Abstracts p. 172) (2008)
57. ***“Identifying pigments in the temple of Seti I in Abydos (Egypt)”***  
E. Pavlidou, H. Marey Mahmoud, E. Roumeli, F. Zorba, K.M. Paraskevopoulos, M.F. Ali  
*14th European Microscopy Congress, EMC 2008*, S. Richter, A. Schwedt (Eds.):, Vol. 2: Materials Science, p. 829, DOI: 10.1007/978-3-540-85226 (2008)
58. ***“Haemocompatibility and nanomechanical properties of hydrogenated amorphous carbon nanocoatings for stents applications”***  
V.Karagkiozaki, S. Logothetidis, S.Kassavetis, G.Giannoglou  
*Endocoronary Biomechanics Research Symposium*, April 10-11, 2008, Marseille , France
59. ***“Advances in stent coating technology via Nanotechnology tools and process”***  
V.Karagkiozaki, S. Logothetidis, G.Giannoglou  
*1<sup>st</sup> European Conference for Clinical Nanomedicine*, 19-21 May 2008, Basel, Switzerland
60. ***“On the influence of silicon oxide nanoparticles on the optical and surface properties of hybrid (inorganic-organic) barrier materials”***  
A. Laskarakis, S. Logothetidis, D. Georgiou, S. Amberg-Schwab and U. Weber  
*E-MRS*, 26-30 May 2008, Strasbourg, France
61. ***“Effects of UV treated PET surface on the growth of PEDOT:PSS Thin Films”***  
S. Logothetidis, C. Evangelis, P. G. Karagiannidis, D. Georgiou and C. Gravalidis  
*E-MRS*, 26-30 May 2008, Strasbourg, France

62. ***“Deposition and characterization of PEDOT /ZnO layers onto PET substrates”***  
M. Garganourakis, S. Logothetidis, C. Koidis, D. Georgiou and A. Laskarakis  
*E-MRS*, 26-30 May 2008, Strasbourg, France
63. ***“Optical and surface characterisation of amorphous boron nitride thin films for biomedical coatings”***  
S. Lousinian, N. Kalfagiannis, S. Logothetidis  
*E-MRS*, 26-30 May 2008, Strasbourg, France
64. ***“Nanodiamond growth in sputtered hydrogenated amorphous carbon thin films”***  
S. Kassavetis, S. Lousinian, A. Laskarakis, S. Logothetidis, I. Tsiaoussis, N. Frangis  
*E-MRS*, 26-30 May 2008, Strasbourg, France
65. ***“The role of Thrombospondin and other Plasma Proteins in Platelets interactions with Carbon Nanocoatings for medical purposes”***  
V. Karagkiozaki, S. Logothetidis, S. Lousinian, G. Giannoglou  
*8<sup>th</sup> World Biomaterials Congress*, 28 May - 1 June 2008, Amsterdam, The Netherlands
66. ***“Effects of annealing and ethylene glycol solvent on electrical, optical and morphological properties of PEDOT:PSS thin films”***  
P. G. Karagiannidis, A. Laskarakis, N. Hastas, O. Valassiades, and S. Logothetidis  
*1<sup>st</sup> International Symposium on Flexible Organic Electronics (IS-FOE)*, 9-11 July 2008, Halkidiki, Greece
67. ***“Silicon Oxide Nanoparticles Effect on the Nanomechanical Properties of Hybrid (inorganic-organic) Barrier Materials”***  
I. Zyganitidis, S. Logothetidis, A. Laskarakis, S. Amberg-Schwab and U. Weber  
*1<sup>st</sup> International Symposium on Flexible Organic Electronics (IS-FOE)*, 9-11 July 2008, Halkidiki, Greece
68. ***“Real time optical monitoring of inorganic layer growth onto flexible polymeric substrates”***  
A. Laskarakis, D. Georgiou, S. Logothetidis  
*1<sup>st</sup> International Symposium on Flexible Organic Electronics (IS-FOE)*, 9-11 July 2008, Halkidiki, Greece

69. ***“Fine Tuning of PEDOT optical and electronic properties using solvents”***  
C. Gravalidis, A. Laskarakis, and S. Logothetidis  
*1<sup>st</sup> International Symposium on Flexible Organic Electronics (IS-FOE)*, 9-11 July  
2008, Halkidiki, Greece
70. ***“Growth mechanisms and interface properties of ZnO thin films deposited onto flexible substrates”***  
C. Koidis, S. Logothetidis, A. Laskarakis, I. Tsiaoussis and N. Frangis  
*1<sup>st</sup> International Symposium on Flexible Organic Electronics (IS-FOE)*, 9-11 July  
2008, Halkidiki, Greece
71. ***“Nanomechanical properties of hybrid coatings for the encapsulation of FEDs”***  
S. Kassavetis, S. Logothetidis, A. Laskarakis, S. Amberg-Schwab, and U. Weber  
*1<sup>st</sup> International Symposium on Flexible Organic Electronics (IS-FOE)*, 9-11 July  
2008, Halkidiki, Greece
72. ***“Optical Characterization of Optically Anisotropic Flexible Polymeric Substrates”***  
E. Stavrinidou, A. Laskarakis, S. Logothetidis  
*1<sup>st</sup> International Symposium on Flexible Organic Electronics (IS-FOE)*, 9-11 July  
2008, Halkidiki, Greece
73. ***“Mechanical deformation of barrier inorganic coatings grown on flexible polymeric substrates”***  
S. Kassavetis, H. Polatoglou and S. Logothetidis  
*1<sup>st</sup> International Symposium on Flexible Organic Electronics (IS-FOE)*, 9-11 July  
2008, Halkidiki, Greece
74. ***“II-VI Semiconductor Nanoparticles Produced by Laser Ablation”***  
N. G. Semaltianos, S. Logothetidis, W. Perrie, S. Romani, R. J. Potter, P. French, M.  
Sharp, G. Dearden and K. G. Watkins  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece
75. ***“Optical and Surface characterization of Amorphous Boron Nitride Thin Films for Biomedical Coatings”***  
S. Lousinian, N. Kalfagiannis, S. Logothetidis  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece

76. ***“Arterial LDL Transport in the Normal Aortic Arch”***  
J.V. Soulis, G.D. Giannoglou, M. Demetrakopoulou, V.C. Papaioannou, S. Logothetidis  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece
77. ***“The effect of substrate voltage and rotation on the crystal structure, morphology and optical properties of TiB<sub>2</sub> films”***  
N. Kalfagiannis, S. Logothetidis  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece
78. ***“Case Studies of Academic Spin-Offs Creation in Greece”***  
M. Chachamidou, S. Logothetidis  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece
79. ***“Ultra Sharp Berkovich Indenter Used For Nanoindentation Studies of TiB<sub>2</sub> Thin Films”***  
I. Zyganitidis, N. Kalfagiannis, S. Logothetidis  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece
80. ***“Non-Destructive characterization on ion beam treated polymer surfaces”***  
C. Gravalidis, S. Kassavetis and S. Logothetidis  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece
81. ***“The influence of silicon oxide nanoparticles on the optical and surface properties of hybrid (inorganic-organic) barrier materials”***  
A. Laskarakis, D. Georgiou, S. Logothetidis, S. Amberg-Schwab and U. Weber  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece
82. ***“Optical Characterization of Optically Anisotropic Flexible Polymeric Substrates”***  
E. Stavrinidou, A. Laskarakis, S. Logothetidis  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16

July 2008, Thessaloniki, Greece

83. ***“First-principles studies on the electronic properties of pentacene and rubrene”***  
G. Volonakis, L. Tsetseris, S. Logothetidis  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece
84. ***“Growth and characterization of ZnO/PEDOT:PSS thin films operating as a p-n junction for flexible electronic devices”***  
M. Garganourakis, S. Logothetidis, C. Pitsalidis, D. Georgiou, S. Kassavetis and A. Laskarakis  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece
85. ***“Study of PEDOT:PSS thin films deposited on modified PET substrates”***  
S. Logothetidis, C. Evangelis, P.G. Karagiannidis, D. Georgiou and C. Gravalidis  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece
86. ***“Developing Fe<sub>2</sub>O<sub>3</sub> quantum dots with Ferritin monolayers on Si”***  
K. Anetakis, G. Papadopoulos, S. Logothetidis  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece
87. ***“Solvent Effects on the Fraction 1-57 from HPNAP: Molecular Dynamics Simulations”***  
S. Pentas, G. Papadopoulos, F. Kottakis, S. Logothetidis and T. Choli-Papadopoulou  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece
88. ***“Haemocompatibility and Nanomechanical Properties of Carbon Based Thin Films as Stent-Coatings”***  
V. Karagkiozaki, S. Logothetidis, S. Kassavetis, S. Lousinian, A. Laskarakis, G. Giannoglou  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece
89. ***“Physical Properties of a Hybrid and a Nanohybrid Dental Light-cured Resin***

**Composite”**

I. Sideridou, M. Karabela, Ch. Micheliou, P. Karagiannidis and S. Logothetidis  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece

90. **“Electron Microscopy of CrN-TiN Multilayer Thin Films”**

N. Frangis, K. Breza, I. Tsiaoussis, N. Kalfagiannis, S. Logothetidis  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece

91 **“Expansion effect on the coated coronary stent surface properties”**

S. Kassavetis, S. Fachouri, S. Logothetidis, G. Kazinakis, and E. Pavlidou  
*5<sup>th</sup> International Conference – NN08 & 2<sup>nd</sup> Inter Summer School – SS-NN08*, 14-16  
July 2008, Thessaloniki, Greece

92. **“Current Trends in Flexible Organic Electronics”**

S. Logothetidis  
*International School on Advanced Material Science and Technology*, 2 - 5  
September 2008, Jesi – Italy

93. **“Nanocoatings via Nanotools for inhibition of late Stent thrombosis”**

V.Karagkiozaki, S. Logothetidis, A. Laskarakis, C. Chrisopoulos, G.Giannoglou  
*Fourth Annual Symposium of the American Academy of Nanomedicine*, 4-7  
September 2008, USA

94. **“Organic & Inorganic Electrodes for Flexible Organic Electronics Applications”**

S. Logothetidis  
*2<sup>nd</sup> International Symposium on Transparent Conductive Oxides-22 - 26 October*,  
2008, Crete, Greece

95. **“Study of the growth of PEDOT:PSS /ZnO/ PET material. Impact of ZnO thickness and Al dopant on the materials properties”**

M. Garganourakis, S. Logothetidis, C.Pitsalidis, N. A. Hastas, K. Breza, A. Laskarakis, N. Frangis  
*2<sup>nd</sup> International Symposium on Transparent Conductive Oxides-22 - 26 October*,  
2008, Crete, Greece

96. **“Development and monitoring of hybrid active and passive materials for organic**

***electronics applications”***

S. Logothetidis

*Plastic Electronics Conference 2008, 27-28 October 2008 Berlin, Germany*

97. ***“Carbon-based materials for cardiovascular applications: Investigation of haemocompatibility with nanoscale precision techniques”***

S. Logothetidis

3<sup>rd</sup> International Conference on Biomaterials and Medical Devices  
*BIOMMEDD’2008, 13-16 Nov, Bucharest, Romania*

98. ***“Expansion Effect on the Coated Coronary Stent Surface and Nanomechanical Properties”***

S. Kassavetis, S. Logothetidis, S. Fachouri, G. Kazinakis and E. Pavlidou

*Oral Presentation in MRS Fall Meeting 2008, 1- 5 December, Boston, MA, U.S.A*

99. ***“Nanoindentation Induced Deformation to Inorganic Thin Films Grown on Flexible Polymeric Substrates for FEDs Application”***

S. Kassavetis, S. Logothetidis and H. Polatoglou

*Oral Presentation in MRS Fall Meeting 2008, 1- 5 December, Boston, MA, U.S.A*

100. ***“Application of conventional and microbeam synchrotron radiation X-ray fluorescence and absorption for the characterization of human nails”***

M. Katsikini, A. Mavromati, F. Pinakidou, E. C. Paloura, D. Gioulekas, D. Ioannides, A. Erko, I. Zizak

*1<sup>st</sup> Int. Conf. from Nanoparticles & Nanomaterials to Nanodevices & Nanosystems, Halkidiki, June 2008*

101. ***“Comparison of Fe and Si doping of GaN: An EXAFS and Raman study”***

M. Katsikini, F. Pinakidou, E. C. Paloura, J. Arvanitidis, S. Ves, Ph. Komninou, Z. Bourgioua, E. Iliopoulos, T. D. Moustakas

*1<sup>st</sup> Int. Conf. from Nanoparticles & Nanomaterials to Nanodevices & Nanosystems, Halkidiki, June 2008*

102. ***“On the nanostructure of Cu in  $Ti_xCu_{1-x}$  and TiN-Cu films: A XAFS study”***

Fani Pinakidou, Maria Katsikini, E.C. Paloura, P. Patsalas, G. Abadias

*1<sup>st</sup> Int. Conf. from Nanoparticles & Nanomaterials to Nanodevices & Nanosystems, Halkidiki, June 2008*

103. ***“Nanostructural characterization of TiN-Ni films: A XAFS study”***  
Fani Pinakidou, Maria Katsikini, E. C. Paloura, A. Akbari, J. Riviere  
*1<sup>st</sup> Int. Conf. from Nanoparticles & Nanomaterials to Nanodevices & Nanosystems*,  
Halkidiki, June 2008
104. ***“Local bonding geometry of oxygen implanted GaN: a depth dependent study”***  
M. Katsikini, F. Boscherini, E. C. Paloura  
*1<sup>st</sup> Int. Conf. from Nanoparticles & Nanomaterials to Nanodevices & Nanosystems*,  
Halkidiki, June 2008
105. ***“Microscopical study of the influence of zinc addition on the structure of WO<sub>3</sub>”***  
K. Nikolaidis, D. Chaliampalias, G. Vourlias, E. Pavlidou, G. Stergioudis  
*14th Eur. Microscopy Con.*, p.707-708, 2008.
106. ***“III<sup>d</sup> century BC silver coins from Kreshpan hoard (Albania): data form bulk elemental analysis and microstructure studies”***  
N. Civici, T. Dilo, Sh. Gjongecaj, F. Stamati, N. Pistofidis, G. Vourlias, E. Pavlidou,  
G. Stergioudis, E. K. Polychroniadis  
*2<sup>nd</sup> International Symposium "Ancient and Medieval Metalworks. Archaeology-Numismatics-Nuclear Analyses"*, Bucharest, Romania, May 6-7, 2008
107. ***“Structural analysis of Au/Ti/Al/SiC contacts in dependence on the initial composition and annealing”***  
L. Kolaklieva, R. Kakanakov, M. Marinova, E. Polychroniadis  
*Proceedings of the 1<sup>st</sup> ICAN – 2008 International Conference*, Halkidiki, Greece,  
June 16-28, 2008
108. ***“Optical investigation on the SiC by using Scanning Laser Microscopy Techniques”***  
G. Stanciu, St. Stanciu, R. Hristu, E. Polychroniadis  
*22<sup>nd</sup> General Conference of the Condensed Matter Division (CMD 22) of the European Physical Society (EPS)*, Rome, Italy, August 25-29, 2008
109. ***“The influence of the synthesis conditions of NiCuZn ferrites on their microscopic homogeneity”***  
D. Sakellari, V. Tsakaloudi, V. Zaspalis, E.K. Polychroniadis  
*4<sup>th</sup> International Conference on Diffusion in Solids and Liquids (DSL-2008)*, July 9-11, 2008, Barcelona, Spain



110. ***“8H stacking faults in a 4H-SiC matrix; simple unit cell or double 3C quantum wells?”***

T. Robert, S. Juillaguet, M. Marinova, T. Chassagne, I. Tsiaoussis, N. Frangis, E.K. Polychroniadis, J. Camassel  
*7<sup>th</sup> European Conference on Silicon Carbide and Related Materials (ECSCRM) 2008*, Barcelona, Spain, September 7-11, 2008  
Materials Science Forum - accepted

111. ***“TEM study of inversion domain boundaries annihilation mechanism in 3C-SiC during Growth”***

A. Mantzari, C. B. Lioutas, E.K. Polychroniadis  
*7<sup>th</sup> European Conference on Silicon Carbide and Related Materials (ECSCRM) 2008*, Barcelona, Spain, September 7-11, 2008  
Materials Science Forum - accepted

112. ***“Combined structural and optical studies of stacking faults in 4H-SiC layers grown by chemical vapour deposition”***

M. Marinova, T. Robert, S. Juillaguet, I. Tsiaoussis, N. Frangis, E.K. Polychroniadis, J. Camassel, T. Chassagne  
*Extended Defects in Semiconductors (EDS) 2008*, September 14-19, 2008, Poitiers, France

113. ***“High pressure Raman study of carotene-encapsulating single-wall carbon nanotubes”***

J. Arvanitidis, D. Christofilos, S. M. Souliou, K. Yanagi, H. Kataura, G. A. Kourouklis, and S. Ves.  
*13<sup>th</sup> International Conference on High Pressure Semiconductor Physics*, Fortaleza, Ceara (Brazil) August, 2008.

114. ***“High pressure Raman spectroscopy in carbon nanotubes”***

G. A. Kourouklis, J. Arvanitidis, D. Christofilos, and S. Ves.  
*Proceedings of 2008 E-MRS (European Materials Research Society) Fall Meeting*, Warsaw (Poland) September 2008

115. ***“The effect of different nanoparticles on the mechanical properties, permeability and thermal degradation mechanism of HDPE”***

K. Chrissafis, A. Palani, D. Louka, K.M. Paraskevopoulos, D. Bikiaris

5<sup>th</sup> International conference on Nanosciences and Nanotechnologies, July 14-16, 2008, Thessaloniki, Greece, p. 258

116. ***“Examination of the Corrosion Performance of Zirconia Coatings in Aggressive Environments”***

N. Pistofidis, D.Chaliampalias, E. Pavlidou K. Chrissafis, G. Stergioudis, G. Vourlias

5<sup>th</sup> International conference on Nanosciences and Nanotechnologies, July 14-16, 2008, Thessaloniki, Greece, p. 261

117. ***“Microstructural examination of Al and Cr alloyed zinc coatings on low carbon steels”***

D. Chaliampalias, G. Vourlias, E. Pavlidou, K. Chrissafis, G. Stergioudis and S. Skolianos

*Proceedings of “EMC 2008 14th European Microscopy Congress”*, 1–5 September 2008, Aachen, Germany, Book Chapter, Volume 2: Materials Science, pp. 701-702, Springer Berlin Heidelberg

118. ***“Study of the structure and high temperature oxidation resistance of high alloyed tool steels”***

E. Pavlidou, D. Chaliampalias, G. Vourlias and K. Chrissafis

*Proceedings of “EMC 2008 14th European Microscopy Congress”*, 1–5 September 2008, Aachen, Germany, Book Chapter, Volume 2: Materials Science, pp, 703-704, Springer Berlin Heidelberg

119. ***“A comparative study of NiCrBSi and Al coated steels with thermal spray process in different environments”***

D. Chaliampalias, G. Vourlias, E. Pavlidou, K. Chrissafis, G. Stergioudis, S. Skolianos

*Proceedings of “EMC 2008 14th European Microscopy Congress”*, 1–5 September 2008, Aachen, Germany, Book Chapter, Volume 2: Materials Science, pp, 705-706, Springer Berlin Heidelberg