

## Publications in International peer-review journals

1. ***“Impact of synthesis parameters on structural and magnetic characteristics of Co-based nanoparticles”***  
S. Mourdikoudis, K. Simeonidis, I. Tsiaoussis, C. Dendrinou-Samara, M. Angelakeris, O. Kalogirou  
*J. Nanopart. Res.* **11** (2009) 1477-1484.
2. ***“Magnetic Force Microscopy on Co/Pt multilayers”***  
V. Karoutsos, P. Pouloupoulos, M. Angelakeris, E.Th. Papaioannou, P. Fumagalli and N.K. Flevaris  
*Solid State Phenomena* **152-153** (2009) 241-244.
3. ***“Controlling the crystal structure of Ni nanoparticles by the use of alkylamines”***  
S. Mourdikoudis, K. Simeonidis, A. Vilalta-Clemente, F. Tuna, I. Tsiaoussis, M. Angelakeris, C. Dendrinou-Samara and O. Kalogirou  
*J. Magn. Magn. Mater.* **321** (2009) 2723–2728.
4. ***“Tailoring the morphology of Co<sub>x</sub>Pt<sub>1-x</sub> magnetic nanostructures”***  
S. Mourdikoudis, K. Simeonidis, K. Gloystein, M. Angelakeris, C. Dendrinou-Samara, I. Tsiaoussis and O. Kalogirou  
*J. Magn. Magn. Mater.* **321** (2009) 3120-3125.
5. ***“Influence of multilayer modulation on structural and magnetic features in the Pt/Sm-Co system”***  
M. Angelakeris, I. Siskos, K. Simeonidis, I. Tsiaoussis, A. Delimitis and O. Kalogirou  
*J. Magn. Magn. Mater.* **321** (2009) 3155–3158.
6. ***“Effects of various chemical synthetic routes on structural and magnetic features of Mn–Pt bimetallic nanoparticles”***  
S. Mourdikoudis, A. Shavel, B. Rodríguez-González, C. Serra, K. Simeonidis, M. Angelakeris, C. Dendrinou-Samara, O. Kalogirou  
*Polyhedron* **28** (2009) 3284-3290.
7. ***“A random matrix approach to Language acquisition”***  
A. Nikolaidis, K. Kosmidis and P. Argyrakis  
*Journal of Statistical Mechanics-Theory and Experiment* **P12008** (2009).
8. ***“Absence of depletion zone effects for the trapping reaction in complex networks”***  
A. Kittas and P. Argyrakis

*Physical Review E* **80** (2009) 046111.

9. **“Negative diffusion coefficient in a two-dimensional lattice-gas system with attractive nearest neighbor interactions”**  
P. Argyrakis, A. A. Chumak, M. Maragakis and N. Tsakiris  
*Physical Review B* **80** (2009) 104203.
10. **“Filtering of complex systems using overlapping tree networks”**  
A. Garas and P. Argyrakis  
*Europhysics Letters* **86** (2009) 28005.
11. **“Effect of AlN interlayers in the structure of GaN-on-Si grown by plasma-assisted MBE”**  
A. Adikimenakis, S.-L. Sahonta, G. P. Dimitrakopoulos, J. Domagala, Th. Kehagias, Ph. Komninou, E. Iliopoulos, and A. Georgakilas  
*Journal of Crystal Growth* **311** (7) 2010 (2009)
12. **“Stranski-Krastanow growth of (11-22)-oriented GaN/AlN quantum dots”**  
L. Lahourcade, S. Valdueza-Felip, T. Kehagias, G. P. Dimitrakopoulos, Ph. Komninou, and E. Monroy  
*Applied Physics Letters* **94** (11) 111901 (2009)
13. **“Study of interfacial defects in uced during the oxidation of ultrathin strained silicon layers”**  
V. Ioannou-Sougliridis , N. Kelaidis, C. Tsamis, D. Skarlatos, C. A. Krontiras, and S. N. Georga, Ph. Komninou, B. Kellerman and M. Seacrist  
*Journal of Applied Physics* **105** (11) 114503 (2009)
14. **“Mechanism of compositional modulations in epitaxial InAlN films grown by molecular beam epitaxy”**  
S.-L. Sahonta, G. P. Dimitrakopoulos, Th. Kehagias, J. Kioseoglou, A. Adikimenakis, E. Iliopoulos, A. Georgakilas, H. Kirmse, W. Neumann, and Ph. Komninou  
*Applied Physics Letters* **95** (2) 021913 (2009)
15. **“Magnesium adsorption and incorporation in InN (0 0 0 1) and (000-1) surfaces: A first-principles study”**  
A. Belabbes, J. Kioseoglou, Ph. Komninou, G.A. Evangelakis, M. Ferhat, Th. Karakostas  
*Applied Surface Science* **255** (20) 8475 (2009)
16. **“Core models of a-edge threading dislocations in wurtzite III ( Al, Ga, In)-**

***Nitrides***

J. Kioseoglou, Ph Komninou and Th Karakostas

*Physica Status Solidi (a)* **206 (8)** 1931 (2009)

17. ***“Polar AlN/GaN interfaces: Structures and energetics”***

J. Kioseoglou, E. Kalesaki, L. Lymperakis, G. P. Dimitrakopoulos, Ph. Komninou, and Th. Karakostas

*Physica Status Solidi (a)* **206 (8)** 1892 (2009)

18. ***“Indium migration paths in V-defects of InAlN grown by metal-organic vapor phase epitaxy”***

Th. Kehagias, G. P. Dimitrakopoulos, J. Kioseoglou, H. Kirmse, C. Giesen, M. Heuken, A. Georgakilas, W. Neumann, Th. Karakostas, and Ph. Komninou

*Applied Physics Letters* **95 (7)** 071905 (2009)

19. ***“Strain accommodation and interfacial structure of AlN interlayers in GaN”***

G. P. Dimitrakopoulos, E. Kalesaki, Ph. Komninou, Th. Kehagias, J. Kioseoglou and Th. Karakostas

*Crystal Research and Technology* **44 (10)** 1170 (2009) (invited)

20. ***“Silver nanoparticles and graphitic carbon through thermal decomposition of a silver/acetylenedicarboxylic salt”***

P. Dallas, A. B.Bourlinos, P. Komninou, M. Karakassides, and D. Niarchos

*Nanoscale Research Letters* **4 (11)** 1358 (2009)

21. ***“Metal-containing amorphous Carbon (a-C:Ag) and AlN (AlN:Ag) metallo-dielectric nanocomposites”***

G.M. Matenoglou, H. Zoubos, A. Lotsari, Ch.E. Lekka, Ph. Komninou, C. Kosmidis, G.A. Evangelakis, P. Patsalas

*Thin Solid Films* **518 (5)** 1508 (2009)

22. ***“Energetics of oxygen adsorption and incorporation at InN polar surface: A first-principles study”***

A. Belabbes, J. Kioseoglou, Ph. Komninou and Th. Karakostas

*Physica Status Solidi (c)* **6 (2)** 364 (2009)

23. ***“ZnO nanostructures grown on epitaxial GaN”***

M. Breedon, Th. Kehagias, M. Shafiei, K. Kalantar-zadeh, W. Wlodarski

*Thin Solid Films* **518** 1053 (2009)

24. ***“Atomic force microscopy probing platelet activation behavior on titanium nitride***

***nanocoatings for biomedical applications”***

Karagkiozaki, V., Logothetidis, S., Kalfagiannis, Lousinian, S., Giannoglou, G.  
*Nanomedicine: Nanotechnology, Biology, and Medicine* **5 (1)** (2009) 64-72

25. ***“Thin film and interface properties during ZnO deposition onto high-barrier hybrid/PET flexible substrates”***  
C. Koidis, S. Logothetidis, A. Laskarakis, I. Tsiaoussis, N. Frangis  
*Micron* **40 (1)** (2009) 130-134.
26. ***“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* **18 (1)** (2009) 6-12.
27. ***“Femtosecond laser ablation characteristics of nickel-based superalloy C263”***  
Semaltianos, N.G., Perrie, W., French, P., Sharp, M., Dearden, G., Logothetidis, S., Watkins, K.G.  
*Applied Physics A: Materials Science and Processing* **94 (4)** (2009) 999-1009
28. ***“CdTe nanoparticles synthesized by laser ablation”***  
Semaltianos, N.G., Logothetidis, S., Perrie, W., Romani, S., Potter, R.J., Sharp, M., French, P., Watkins, K.G.  
*Applied Physics A: Materials Science and Processing* **95 (3)** (2009) 641-647.
29. ***“II–VI semiconductor nanoparticles synthesized by laser ablation”***  
N. G. Semaltianos, S. Logothetidis, W. Perrie, S. Romani, R. J. Potter, M. Sharp, P. French, G. Dearden and K. G. Watkins  
*Applied Physics A: Materials Science and Processing* **94 (3)** (2009) 641-647.
30. ***“Migration of species in a prototype diffusion barrier: Cu, O, and H in TiN”***  
L. Tsetseris, S. Logothetidis, and S. T. Pantelides  
*Appl. Phys. Lett.* **94 (16)** 161903 (2009)
31. ***“Special Issue: International Symposium on Flexible Organic Electronics (IS-FOE)”***  
S. Logothetidis  
*European Physical Journal Applied Physics* **46 (1)** 12501 (2009)
32. ***“Towards the optimization of materials and processes for flexible organic electronic devices”***  
S. Logothetidis, A. Laskarakis

*European Physical Journal Applied Physics* **46** (1) 12502 (2009)

33. **“Fine tuning of PEDOT electronic properties using solvents”**  
C. Gravalidis, A. Laskarakis and S. Logothetidis  
*European Physical Journal Applied Physics* **46** (1) 12505 (2009)
34. **“Optical and surface characterization of amorphous boron nitride thin films for use as blood compatible coatings”**  
S. Lousinian, N. Kalfagiannis and S. Logothetidis  
*Solid State Sciences* **11**(10) (2009) 1801-1805.
35. **“Nanoscale Characterization of Biological and Mechanical Profile of Carbon Stent Nanocoatings”**  
V. Karagkiozaki, S. Logothetidis, S. Kassavetis and S. Lousinian  
*European Journal of Nanomedicine* **2** (2) (2009) 14-21.
36. **“Real-time evaluation of thickness, optical properties and stoichiometry of SiO<sub>x</sub> gas barrier coatings on polymers”**  
M. Gioti, S. Logothetidis, J. Schroeder, G. Steiniger  
*Thin Solid Films* **517** (23) (2009) 6230-6233.
37. **“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, U. Weber  
*Thin Solid Films* **517** (23) (2009) 6275-6279.
38. **“Deposition and characterization of PEDOT/ZnO layers onto PET substrates”**  
M. Garganourakis, S. Logothetidis, C. Pitsalidis, D. Georgiou, S. Kassavetis, A. Laskarakis  
*Thin Solid Films* **517** (23) (2009) 6409-6413.
39. **“Ultra sharp Berkovich indenter used for nanoindentation studies of TiB<sub>2</sub> thin films”**  
I. Zyganitidis, N. Kalfagiannis, S. Logothetidis  
*Materials Science and Engineering B*, **165** (3) (2009) 198-201.
40. **“Optical properties of hybrid polymers as barrier materials”**  
D. Georgiou, A. Laskarakis, S. Logothetidis, S. Amberg-Scwhab, U. Weber, M. Schmidt, K. Noller I.  
*Applied Surface Science*; **255** (18) (2009) 8023-8029.

41. ***“Study of the growth of inorganic and organic electrodes onto polyethylene terephthalate substrates”***  
M. Garganourakis, S. Logothetidis, C. Pitsalidis, N.A. Hastas, K. Breza, A. Laskarakis, N. Frangis  
*Thin Solid Films* **518** (4) (2009) 1124-1128.
  
42. ***“Study of the optical response of hybrid polymers with embedded inorganic nanoparticles for encapsulation of flexible organic electronics”***  
A. Laskarakis, D. Georgiou, S. Logothetidis, S. Amberg-Scwhab, U. Weber  
*Materials Chemistry and Physics* **115** (1) (2009) 269-274.
  
43. ***“Organic against inorganic electrodes grown onto polymer substrates for flexible organic electronics applications”***  
S. Logothetidis, A. Laskarakis  
*Thin Solid Films* **518** (4) (2009) 1245-1249.
  
44. ***“Influence of Oscillating Flow on LDL Transport and Wall Shear Stress in the Normal Aortic Arch”***  
J. Soulis, D. Giannoglou, M. Dimitrakopoulou, V. Papaioannou, S. Logothetidis and D.P. Michailidis  
*Open Cardiovasc Med J.* **17**(3) (2009) 128-42.
  
45. ***“On the Pentaheptite Nanotubes”***  
M. Damnjanović , Z. Popović , G. Volonakis , S. Logothetidis , I. Milošević  
*Materials and Manufacturing Processes* **24** (10-11) (2009) 1124-1126.
  
46. ***“Physical Properties of a Hybrid and a Nanohybrid Dental Light-Cured Resin Composite”***  
Sideridou ID., Karabela M., Micheliou CN., Karagiannidis PG., Logothetidis S.  
*Journal of biomaterials science-polymer edition* **20** (13) (2009) 1831-1844.
  
47. ***“Real-time evaluation of thickness, optical properties and stoichiometry of SiOx gas barrier coatings on polymers“***  
M. Gioti, S. Logothetidis, J. Schroeder, G. Steiniger  
*Thin Solid Films* **517** (2009) 6230–6233.
  
48. ***“On the structured imperfections of bulk GaSb using high resolution transmission electron microscopy”***  
Lioutas Ch.B., Zoulis G., Konidaris S., Polychroniadis E.K., Stroz D.,  
*Micron*, **40** (1) (2009) 6-10.

49. ***“A TEM Study of Inversion Domain Boundaries Annihilation Mechanism in 3C-SiC During Growth”***  
Mantzari A., Lioutas Ch.B., Polychroniadis E.K.  
*Mater. Sci. Forum* **615-617** (2009) 331-334.
50. ***“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  
*Phys. Stat. Sol, (b)* **246**, (2009) 496-499, DOI: 10.1002/pssb.200880518
51. ***“Lattice dynamics and Raman scattering by phonons of GaAs/AlAs(001) superlattices”***  
D Berdekas and S Ves  
*J. Phys.: Condens. Matter.* **21**, 275405-1-275405-14, (2009).doi/10.1088/0953-8984/21/27/275405
52. ***“High Pressure Raman Spectroscopy in Carbon Nanotubes”***  
Kourouklis GA, Arvanitidis J, Christofilos D, Ves S.  
*ACTA PHYSICA POLONICA A* **116** (1) (2009) 13-18.
53. ***“High-pressure Raman study of peapod- and CVD-grown double-wall carbon nanotubes”***  
Arvanitidis J, Christofilos D, Kourouklis GA, Ves S, Takenobu T, Iwasa Y, Kataura H  
*HIGH PRESSURE RESEARCH* **29**, (2009) 554-558.
54. ***“Effect of annealing on the structural role of Fe in composite Fe- and Zn-rich materials: a XAFS study”***  
F. Pinakidou, M. Katsikini, Th. Kehagias and E.C. Paloura  
*Journal of Alloys and Compounds* **483** (2009) 665.
55. ***“X-ray absorption Spectroscopies: a novel tool for the nanostructural characterization of stabilized industrial waste”***  
F. Pinakidou and E.C. Paloura  
*Journal of Alloys and Compounds* **483** (2009) 670.
56. ***“Zn-K edge EXAFS study of human nails”***  
M. Katsikini, E. Mavromati, F. Pinakidou, E. C. Paloura, D. Gioulekas  
*Journal of Physics: Conference Series* **190**, 12204 (2009).

57. **“N-K edge NEXAFS study of the defects induced by indium implantation in GaN”**  
M. Katsikini, F. Pinakidou, E. C. Paloura et al  
*Journal of Physics: Conference Series* **190** (2009)
58. **“On the nanostructure of Cu in  $Ti_xCu_{1-x}$  and TiN/Cu films:a XAFS study”**  
F. Pinakidou, M. Katiskini, P. Patsalas, G. Abadias, E.C. Paloura  
*Journal of Nano Research* **6** (2009) 43
59. **“n-p transformation in  $TlBi_{(1-x)}Sb_xTe_2$  system”**  
K.M. Paraskevopoulos, E.S. Vinga, E. Hatzikraniotis, M. Ozer, A. Anagnostopoulos,  
E.K. Polychroniadis.  
*J. of Alloys and Compounds* **467**, 65 (2009).
60. **“Far infrared properties of sintered  $Pb_{0.9}Sn_{0.1}Te$  doped with Palladium”**  
P. M. Nikolić, K. M. Paraskevopoulos, M. V. Nikolić, S. S. Vujatović, E. Pavlidou,  
T. T. Zorba, T. Ivetić, B. Stamenović, N. Labus, M. Jović, M. M. Ristić  
*Powder Metallurgy and Metal Ceramics* **48**, 353 (2009)
61. **“Synthetic Conditions and Their Doping Effect on  $\beta$ - $K_2Bi_8Se_{13}$ ”**  
Th. Kyratsi, E. Kika, E. Hatzikraniotis, K.M. Paraskevopoulos, K. Chrissafis, M.G.  
Kanatidis  
*Journal of Alloys and Compounds* **474**, 351 (2009).
62. **“Far Infrared study of impurity local modes in Palladium doped PbTe and PbSnTe”**  
P.M. Nikolić, K.M. Paraskevopoulos, S.R. Djukic, S.S. Vujatović, N.J. Labus, T.T.  
Zorba, M. Jović, M.V. Nikolić, A. Bojcic, V. Blagojević, B. Stamenovic, W. König  
*Journal of Alloys and Compounds* **475**, 930 (2009)
63. **“Dental ceramics modified by ternary glass-ceramic coatings: Characterization and in vitro bioactivity study”**  
X. Chatzistavrou, N. Kantiranis, L. Papadopoulou, E. Kontonasaki, A.R. Boccaccini,  
P. Koidis, K.M. Paraskevopoulos  
*Key Engineering Materials* **111** (2009), 396-398.
64. **“Sol-gel hydroxyapatite–CaO composites: Fabrication and Bioactivity Studies”**  
E. Hatzistavrou, X. Chatzistavrou, L. Papadopoulou, N. Kantiranis, K. Chrissafis,  
A.R. Boccaccini, K.M. Paraskevopoulos  
*Key Engineering Materials* **99** (2009) 396-398.
65. **“Novel glass-ceramics for dental application by sol gel technique”**



- X. Chatzistavrou, E. Hatzistavrou, N. Kantiranis, L. Papadopoulou, E. Kontonasaki, K. Chrissafis, P. Koidis, K.M. Paraskevopoulos, A.R. Boccaccini  
*Key Engineering Materials* **153** (2009) 396-398.
66. **“Study of the Bioactive Behavior of Thermally Treated modified 58S Bioactive Glass”**  
O.M. Goudouri, X. Chatzistavrou, E. Kontonasaki, N. Kantiranis, L. Papadopoulou, K. Chrissafis, K.M. Paraskevopoulos  
*Key Engineering Materials* **131** (2009) 396-398.
67. **“A bioactive glass/dental porcelain system by the sol gel route: Fabrication and Characterization”**  
O.M. Goudouri, E. Kontonasaki, N. Kantiranis, X. Chatzistavrou, L. Papadopoulou, P. Koidis, K.M. Paraskevopoulos  
*Key Engineering Materials* **95** (2009) 396-398.
68. **“Investigation of the bioactivity of dental ceramic / bioactive glass composites prepared by the sol gel route”**  
O.M. Goudouri, E. Kontonasaki, X. Chatzistavrou, L. Papadopoulou, P. Koidis, K.M. Paraskevopoulos  
*Key Engineering Materials* **119** (2009) 396-398.
69. **“Far infrared study of impurity local modes in Pr doped PbTe”**  
P.M. Nikolić, K.M. Paraskevopoulos, M.V. Nikolić, S.S. Vujatović, T.T. Zorba, X. Chatzistavrou, B. Stamenović, D. Luković Golić, V. Blagojević, A. Bojičić  
*Materials Chemistry and Physics* **114** (2009) 185.
70. **“Thermal Degradation Mechanism of HDPE nanocomposites containing fumed silica nanoparticles”**  
K. Chrissafis, K.M. Paraskevopoulos, E. Pavlidou, D. Bikiaris  
*Thermochimica Acta* **65** (2009) 485.  
(11 in Top25 Hottest Articles, January- March 2009)
71. **“Bioactivity of CaO–MgO–SiO<sub>2</sub> glass ceramics synthesized using Transferred arc plasma (TAP) process”**  
C.P. Yoganand, V. Selvarajan, Luca Lusvarghi, O.M. Goudouri, K.M. Paraskevopoulos, Mahmoud Rouabhia  
*Materials Science and Engineering C* **29** (2009) 1759.
72. **“Thermoelectric Properties and Nanostructuring in the p-type Materials NaPb<sub>18-x</sub>Sn<sub>x</sub>MTe<sub>20</sub> (M=Sb, Bi)”**

A.Gueguen, P. Poudeu, H. Kong, S. Moses, C. Uher, J.Q. He, V. Dravid, K. Paraskevopoulos, and M.G. Kanatzidis  
*Chemistry of Materials* **21** (2009) 1683

73. **“Optical properties of PbTe and PbSnTe doped with Cr”**  
P.M. Nikolic, K.M. Paraskevopoulos, S.S. Vujatovic, M.V. Nikolic, X. Chatzistavrou, E. Pavlidou, T. Ivetic, V. Blagojevic, A. Bojicic, D. Dinulovic  
*J. of Alloys and Compounds* **480** (2009) 893.
74. **“Kinetics Study of cold-crystallization of poly(ethylene terephthalate) nanocomposites with multi-walled carbon nanotubes”**  
G. Antoniadis, K.M. Paraskevopoulos, D. Bikiaris, K. Chrissafis  
*Thermochimica Acta* **68** (2009) 493.
75. **“Comparative study of the effect of different nanoparticles on the mechanical properties, permeability and thermal degradation mechanism of HDPE”**  
K. Chrissafis, K.M. Paraskevopoulos, I. Tsiaoussis, D. Bikiaris  
*Journal of the Applied Polymer Science* **114** (2009), 1606
76. **“Far infrared study of some rare earth impurities in crystals of Pb<sub>1-x</sub>Sn<sub>x</sub> alloys”**  
P. M. Nikolic, K. M. Paraskevopoulos, M. V. Nikolic, B. Stamenovic, T. T. Zorba, S. S. Vujatovic, V. Blagojevic, A. Bojicic  
*Journal of Optoelectronics and Advanced Materials* **11** (2009) 457
77. **“Melt-crystallization mechanism of Poly(ethylene terephthalate)/Multi-Walled Carbon Nanotubes (PET/MWCNTs) prepared by in-situ polymerization”**  
G. Antoniadis, K. M. Paraskevopoulos, D. Bikiaris, K. Chrissafis  
*Journal of Polymer Science Part B: Polymer Physics* **47** (2009) 1452.
78. **“Sintering and crystallization of 45S5 Bioglass powder”**  
Oana Bretcanu, Xanthippi Chatzistavrou, Konstantinos M. Paraskevopoulos, Reinhard Conradt, Ian Thompson, Aldo R. Boccaccini  
*Journal of the European Ceramic Society* **29** (2009) 3299
79. **“Pseudomonas A1 influences the formation of hydroxyapatite and degrades bioglass”**  
E. Papadopoulou, L. Papadopoulou, K.M. Paraskevopoulos, P. Koidis, A. Sivropoulou  
*Materials Science and Engineering B* **165** (2009) 239.
80. **“Arsenate-bearing natural schwertmannite-type phase in acid mine drainage**

***(AMD) precipitates from N. Greece***

A. Godelitsas, J. Gottlicher, D. Foustoukos, I. Sanakis, K. Chrissafis, Th. Kehagias, T. Zorba, K.M. Paraskevopoulos  
*Geochimica et Cosmochimica Acta* **73** (2009) A443

81. ***“Structural Analysis of Zn<sub>2</sub>TiO<sub>4</sub> doped with MgO”***

M. V. Nikolic, N. Obradovic, K. M. Paraskevopoulos, T. T. Zorba, S. M. Savic, and M. M. Ristic  
*Powder Metallurgy and Metal Ceramics* **48** (2009) 712.

82. ***“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  
*Physica Status Solidi (A)* **206** (2009) 1924-1930

83. ***“Study of the 3C-SiC nucleation from a liquid phase on a C face 6H-SiC substrate”***

O. Kim-Hak, G. Ferro, J. Dazord, M. Marinova, J. Lorenzzi, E. Polychroniadis, P. Chaudouët, D. Chaussende, P. Miele  
*J. Crystal Growth* **311** (2009) 2385-2390

84. ***“A TEM study of in-grown stacking faults in 3C-SiC layers grown by CF-PVT on 4H-SiC substrates”***

M. Marinova, F. Mercier, A. Mantzari, I. Galben, D. Chaussende, E. K. Polychroniadis  
*Physica B: Condensed Matter* **404** (2009) 4749-4751

85. ***“Defect-induced polytype transformations in LPE grown SiC epilayers on (111) 3C-SiC seeds grown by VLS on 6H-SiC”***

M. Marinova, G. Zoulis, T. Robert, F. Mercier, A. Mantzari, I. Galben, O. Kim-Hak, J. Lorenzzi, S. Juillaguet, D. Chaussende, G. Ferro, J. Camassel, E. K. Polychroniadis  
*Physica B: Condensed Matter* **404** (2009) 4727-4730

86. ***“Oxidation behaviour of precipitation hardened steel TG, X-Ray, XRD and SEM study”***

Vourlias, G., Pistofidis, N., Pavlidou, E., Chrissafis, K.  
*Journal of Thermal Analysis and Calorimetry* **95** (1) 2009. 63-68

87. ***“Comparative examination of the microstructure and high temperature oxidation performance of NiCrBSi flame sprayed and pack cementation coatings”***

- Chaliampalias, D., Vourlias, G., Pavlidou, E., Skolianos, S., Chrissafis, K., Stergioudis, G.  
*Applied Surface Science* **255** (6) (2009) 3605-3612.
88. ***“Examination of the oxidation resistance of high-alloyed tool steels at elevated temperatures”***  
 Chaliampalias, D., Vourlias, G., Pavlidou, E., Stergioudis, G., Chrissafis, K.  
*Applied Surface Science* **255** (12) (2009) 6244-6251
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91. ***“Nano-phenomena during exposure of plasma-sprayed ceria stabilised zirconia coatings to oxygen rich environments”***  
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92. ***“Plasma-Sprayed YSZ coatings: Microstructural features and resistance to molten metals”***  
 G. Vourlias, N. Pistofidis, P. Psyllaki, E. Pavlidou, G. Stergioudis, K. Chrissafis.  
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93. ***“Rapid thermal annealing temperature dependence of noise properties in Au/n-GaAs Schottky diodes with embedded InAs quantum dots in asymmetric  $In_{0.2}Ga_{0.8}As$  wells”***  
 N. Arpatzanis, N.A. Hastas, C.A. Dimitriadis, G. Konstantinidis, C. Charitidis, J.D. Song, W.J. Choi, and J.I. Lee  
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94. ***“Backscattering coefficient and drift-diffusion mobility extraction in short channel MOS devices”***  
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95. ***“Experimental characterization of the subthreshold leakage current in triple-gate FinFETs “***  
 A. Tsormpatzoglou, C. A. Dimitriadis, M. Mouis, G. Ghibaudo, N. Collaert  
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96. ***“A compact drain current model of short-channel cylindrical gate-all-around MOSFETs”***  
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97. ***“A light-impact model for p-type and n-type poly-TFTs”***  
 N.P. Papadopoulos, A.A. Hatzopoulos, D.K. Papakostas, R. Picos, C.A.Dimitriadis, S. Siskos  
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 A. Tsormpatzoglou, D. H. Tassis, C. A. Dimitriadis, M. Mouis, G. Ghibaudo, G. and N. Collaert  
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99. ***“Kinetics of thermal degradation of polymers: Complementary use of isoconversional and model-fitting methods”***  
 K. Chrissafis  
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100. ***“In-situ prepared PBSu/SiO<sub>2</sub> nanocomposites. Study of thermal degradation mechanism”***  
 A. Vassiliou, K. Chrissafis, D.N. Bikiaris  
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## Publications in International Conference Proceeding Volumes

1. ***“Multifunctional Core-Shell Fe-MgO Nanospheres for biomedicine”***  
C. Martinez-Boubeta, Ll. Balcells, R. Cristòfol, C. Sanfeliu, M. Angelakeris, C. Monty, B. Martínez  
*in NanoSpain 2009, Zaragoza-Spain, 09-12 March 2009.*
2. ***“Interface Controlled Nucleation and Crystallization for Nanoparticle Synthesis, Part I”***  
C. Bocker, R. Wurth, M. Dittmer, S. Gerlach, C. Russel, Th. Hoche, S. Bhattacharyya, A. de Pablos-Martin, N. Hemono, F. Munoz, M.J. Pascual, A. Duran, I. Avramov, P. Argyrakis, N. Tsakiris, U. Fotheringham  
*JNCS, Foz de Iguazu, Brazil, September 6-13, 2009*
3. ***“Interface Controlled Nucleation and Crystallization for Nanoparticle Synthesis, Part II”***  
C. Bocker, R. Wurth, M. Dittmer, S. Gerlach, C. Russel, Th. Hoche, S. Bhattacharyya, A. de Pablos-Martin, N. Hemono, F. Munoz, M.J. Pascual, A. Duran, I. Avramov, P. Argyrakis, N. Tsakiris, U. Fotheringham  
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4. ***“Interface Controlled Nucleation and Crystallization for Nanoparticle Synthesis, Part I”***  
C. Bocker, R. Wurth, M. Dittmer, S. Gerlach, C. Russel, Th. Hoche, S. Bhattacharyya, A. de Pablos-Martin, N. Hemono, F. Munoz, M.J. Pascual, A. Duran, I. Avramov, P. Argyrakis, N. Tsakiris, U. Fotheringham  
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5. ***“Interface Controlled Nucleation and Crystallization for Nanoparticle Synthesis, Part II”***  
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C. Bocker, R. Wurth, M. Dittmer, S. Gerlach, C. Russel, Th. Hoche, S. Bhattacharyya, A. de Pablos-Martin, N. Hemono, F. Munoz, M.J. Pascual, A. Duran, I. Avramov, P. Argyrakis, U. Fotheringham  
*83. Glastechnische Tagung, Amberg, Germany, May 18 - 20, 2009*

7. ***“Collaboration networks within the European Community for the different scientific themes”***  
P. Argyrakis  
*NET-ACE Conference, London (05/2009)*
8. ***“Statistical mechanical approach to human language”***  
K. Kosmidis and P. Argyrakis  
*COST Physics of Conflict and Competition, Durham, UK (4/2009)*
9. ***“A novel approach in the filtering of information from complex systems: The overlapping Tree Network”***  
A. Garas and P. Argyrakis  
*Deutsche Physikalische Gesellschaft e.V.(DPG) Spring Meeting, Dresden, Germany (3/2009)*
10. ***“Information filtering from complex systems”***  
A. Garas and P. Argyrakis  
*SPANGEO Workshop Bordeaux, France (2/2009)*
11. ***“Compositional Nano-Modulations and Growth Mechanism of  $In_xAl_{1-x}N$  alloys by Molecular Beam Epitaxy”***  
S.-L. Sahonta, G. P. Dimitrakopoulos, Th. Kehagias, J. Kioseoglou, A. Adikimenakis, E. Iliopoulos, A. Georgakilas, and Ph.Komninou  
*6<sup>th</sup> International Conference on Nanosciences and Nanotechnologies-NN09 (2009), Θεσσαλονίκη, Ελλάδα, Ιούλιος 2009*
12. ***Atomistic simulations and HRTEM identification of the (10-10)/(2-1-12) boundary in GaN”***  
J. Kioseoglou, G. P. Dimitrakopoulos, J. Smalc-Koziorowska, Ph. Komninou and Th. Karakostas  
*6<sup>th</sup> International Conference on Nanosciences and Nanotechnologies-NN09 (2009), Θεσσαλονίκη, Ελλάδα, Ιούλιος 2009*
13. ***“Structural properties of semipolar and ultra-small polar GaN/AlN Quantum Dots”***  
E. Kalesaki, Th. Kehagias, A.Lotsari, J. Kioseoglou, L. Lahourcade, E. Monroy, G. P. Dimitrakopoulos, Ph. Komninou  
*6<sup>th</sup> International Conference on Nanosciences and Nanotechnologies - NN09 (2009), Θεσσαλονίκη, Ελλάδα, Ιούλιος 2009*

14. ***“Microstructure of InN grown on Si(111) by plasma-assisted MBE using a double buffer layer”***  
G. P. Dimitrakopoulos, Th. Kehagias, A. O. Ajagunna, J. Kioseoglou, G. Nouet, I. Kerasiotis, A. Georgakilas, Th. Karakostas, Ph. Komninou  
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15. ***“Electron microscopy of InGaN nanorods spontaneously grown on Si (111) substrates”***  
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16. ***“Structural models of GaN quantum dots in semipolar AlN”***  
E. Kalesaki, J. Kioseoglou, Th. Kehagias, A. Lotsari, L. Lahourcade, E. Monroy, H. Kirmse, W. Neumann, G. P. Dimitrakopoulos, Ph. Komninou  
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18. ***“The (10-10)/(2-1-12) grain boundary in nonpolar GaN: Atomic structure and influence on defect Introduction”***  
J. Kioseoglou, G. P. Dimitrakopoulos, J. Smalc-Koziorowska, Ph. Komninou, Th. Karakostas  
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19. ***“Quantitative analysis of semipolar GaN Quantum Dots in AlN matrix”***  
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20. ***“Integrated analysis of grain boundaries with complex arrays of interfacial dislocations in III-nitrides”***  
J. Kioseoglou, G. P. Dimitrakopoulos, Th. Kehagias, J. Smalc-Koziorowska, Ph. Komninou, and Th. Karakostas  
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21. ***“HRTEM observations and ab initio calculations on InN/GaN and InGaN/GaN***



***Quantum Well heterostructures”***

E. Kalesaki, J. Kioseoglou, S. –L. Sahonta, Th. Kehagias, G. P. Dimitrakopoulos, Ph. Komninou, and Th. Karakostas

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22. ***“Dislocation density tensor on HRTEM by the geometric phase analysis and the gradient elasticity theory”***

J. Kioseoglou, G. P. Dimitrakopoulos, Ph. Komninou, Th. Karakostas

*Electron Microscopy and Multiscale Modelling - EMMM09*, Ζυρίχη, Ελβετία, Οκτώβριος 2009

23. ***“Mechanisms of Indium segregation in MOVPE and MBE grown InAlN”***

Th. Kehagias, S. –L. Sahonta, G. P. Dimitrakopoulos, J. Kioseoglou, H. Kirmse, W. Neumann, C. Giesen, M. Heuken, A. Adikimenakis, A. Georgakilas, Th. Karakostas and Ph. Komninou

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24. ***“Purely radiative recombination in GaN/AlN QDs with microsecond decay times up to room temperature”***

J. Renard, E. Monroy, Th. Kehagias, Ph. Komninou, H. Mariette, and B. Gayral

*The 8<sup>th</sup> International Workshop on Nitride Semiconductors (ICNS-8)*, ICC Jeju, Κορέα, Οκτώβριος 2009

25. ***“Optical performance of semipolar GaN/AlN Quantum Dots”***

L. Lahourcade, T. Kehagias, S. Valdueza-Felip, G. P. Dimitrakopoulos, Ph. Komninou, and E. Monroy

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26. ***“Bandgap and optical properties of InAlN films lattice matched to GaN grown by MOCVD and RF-MBE”***

E. Iliopoulos, A. Adikimenakis, M. Andoulidaki, A. O. Ajagunna, M. Heuken, C. Giesen, J. F. Carlin, M. A. Di Forte-Poisson, S. L. Delage, Th. Kehagias, Ph. Komninou, and A. Georgakilas

*The 8<sup>th</sup> International Workshop on Nitride Semiconductors (ICNS-8)*, ICC Jeju, Κορέα, Οκτώβριος 2009

27. ***“Structural properties of GaN Quantum Dots in semipolar AlN”***

E. Kalesaki, L. Lahourcade, J. Kioseoglou, Th. Kehagias, A. Lotsari, H. Kirmse, W.

Neumann, E. Monroy, G. P. Dimitrakopoulos, Th. Karakostas, and Ph. Komninou  
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Κορέα, Οκτώβριος 2009

28. ***“Heteroepitaxial structure and defects of III-Nitride epilayers grown on r-plane and m-plane sapphire”***

G. P. Dimitrakopoulos, Th. Kehagias, J. Kioseoglou, L. Lahourcade, J. Smalc-Koziorowska, G. Tsiakatouras, A. Lotsari, E. Kalesaki, Th. Karakostas, E. Monroy, A. Georgakilas, and Ph. Komninou  
*The 8<sup>th</sup> International Workshop on Nitride Semiconductors (ICNS-8)*, ICC Jeju,  
Κορέα, Οκτώβριος 2009

29. ***“Indium incorporation mechanisms in MOVPE and MBE grown InAlN thin films”***

Th. Kehagias, S.-L. Sahonta, G. P. Dimitrakopoulos, J. Kioseoglou, H. Kirmse, W. Neumann, C. Giesen, M. Heuken, A. Adikimenakis, A. Georgakilas, and Ph. Komninou  
*The 8<sup>th</sup> International Workshop on Nitride Semiconductors (ICNS-8)*, ICC Jeju,  
Κορέα, Οκτώβριος 2009

30. ***“AlN-based Nanocomposites Grown by Pulsed Laser Deposition and Sputtering for Photonic Applications”***

H. Zoubos, G. Karras, A. Lotsari, E. Lidorikis, Ch.E. Lekka, G.P. Dimitrakopoulos, Ph. Komninou, G.A. Evangelakis, C.Kosmidis and P. Patsalas  
*ICO PHOTONICS 2009*, Δελφοί, Ελλάδα, Οκτώβριος 2009

31. ***“A nonlinear finite element and atomistic modelling of dislocations in semiconductor structures”***

P. Dłużewski, A. Belkami, T. D. Young, G. Dimitrakopoulos, and Ph. Komninou  
*Proceedings of the 18<sup>th</sup> International Conference on Computer Methods in Mechanics*, Ζιελόνα Γκόρα, Πολωνία, Μάιος 2009

32. ***“Effect of surface kinetics in the growth of a-plane GaN on r-plane sapphire by molecular beam epitaxy”***

G. Tsiakatouras, K. Tsagaraki, J. Domagala, J. Smalc-Koziorowska, G. P. Dimitrakopoulos, Ph. Komninou, E. Iliopoulos and A. Georgakilas  
*18<sup>th</sup> European Workshop on Heterostructure Technology*, Ulm, Γερμανία,  
Νοέμβριος 2009

33. ***“Structural and Mechanical Properties of AlN:Ag Nanocomposites”***

A. Lotsari, G. P. Dimitrakopoulos, Th. Kehagias, P. Kavouras, P. Patsalas, and

Ph.Komninou

*Abstracts of the 6th International Conference on Nanosciences and Nanotechnologies - NN09 (2009)*, Thessaloniki, July 2009, p. 159

34. ***“Catalyst-free versus catalyst-induced GaN nanowires”***  
L. Geelhaar, C. Chéze, O. Brandt, H. Riechert, S. Münch, R. Rothmund, S. Reitzenstein, A. Forchel, Th. Kehagias, Ph. Komninou, G. P. Dimitrakopoulos, and Th. Karakostas  
*Abstracts of the International Conference on Nitride Semiconductors (ICNS-8)*, JeJu Korea, October 2009, p. 88
  
35. ***“Dislocation core localization and size measurement in quantitative HRTEM by the dislocation density tensor”***  
J. Kioseoglou, G. P. Dimitrakopoulos, Ph. Komninou, Th. Karakostas  
*Abstracts of the Electron Microscopy and Multiscale Modelling conference - EMMM09*, Zurich, Switzerland, 27-30 October 2009, p. 53
  
36. ***“Nano-Coating Materials for Cardiovascular Application and Protein Adhesion and Cells Attachment”***  
S. Logothetidis  
*2nd European Conference for Clinical Nanomedicine*, Clinam, Basel, Switzerland, 27-29.04.2009
  
37. ***“Nanoscale Imaging Approaches to probing Human Blood Cells”***  
V. Karagkiozaki, S. Lousinian, S. Logothetidis  
*2nd European Conference for Clinical Nanomedicine*, Clinam, Basel, Switzerland, 27-29.04.2009
  
38. ***“Nanoscale characterization of biological and mechanical profile of carbon nanocoatings for stents”***  
V.Karagkiozaki , S. Logothetidis, S.Kassavetis, S.Lousinian  
*2nd European Conference for Clinical Nanomedicine*, Clinam, Basel, Switzerland, 27-29.04.2009
  
39. ***“Development of state-of-the-art active and passive materials for flexible organic electronics applications”***  
S. Logothetidis  
83. *Workshop Nanotech*, 23-24/10/2009 Braga, Portugal
  
40. ***“Microstructural Characteristics and Nanomechanical Properties of Ti/TiB<sub>2</sub> Multilayered Composites”***

N. Kalfagiannis, I. Zyganitidis, S. Kassavetis, S. Logothetidis, N. Vouroutzis, Ch. B. Lioutas  
*EMRS (European Material Research Society) Spring Meeting 2009*, (Strasbourg, France, 8 June – 12 June 2009)

41. ***“Adsorption Mechanisms of Blood Plasma Proteins on Boron Based Thin Films: Effect of Surface properties”***

S. Lousinian, N. Kalfagiannis, P. Kavatzikidou, V. Karagkiozaki, S. Logothetidis  
*EMRS (European Material Research Society) Spring Meeting 2009*, (Strasbourg, France, 8 June – 12 June 2009)

42. ***“Optical Properties of CuPc and C60 thin films for organic photovoltaic applications”***

A. Laskarakis, D. Georgiou, S. Logothetidis, N. Meyer, M. Heuken, M. Rusu and M.Ch. Lux-Steiner  
*EMRS Spring Meeting 2009, Symposium F* (Strasbourg, France, 8 June – 12 June 2009)

43. ***“Recent Advances in Organic Semiconductors, Electrodes & Ultra barriers for Flexible Organic Electronics”***

S. Logothetidis  
*Plastic Electronics Conference 2009*, Dresden, Germany, October 27-29, 2009

44. ***“Perylenediimide (PTCDI-C5) based bi-layers for organic electronics applications”***

C. Gravalidis, S. Logothetidis, E. Dobruchowska, M. Wiatrowski, T. Halamus, J. Ulanski  
*2nd International Symposium on Flexible Organic Electronics (IS-FOE09)*, (Χαλκιδική, Ελλάδα, 8-10.07.2009)

45. ***“Ultra high barrier materials for encapsulation of flexible organic electronics”***

S. Logothetidis, A. Laskarakis, D. Georgiou, S. Amberg-Schwab, U. Weber, K. Noller, M. Schmidt, W. Lohwasser  
*2nd International Symposium on Flexible Organic Electronics (IS-FOE09)*, (Χαλκιδική, Ελλάδα, 8-10.07.2009)

46. ***“Opto-electronic and nanomechanical properties of Al-doped ZnO thin films grown by different techniques on polymeric substrates”***

C. Koidis, S. Logothetidis, S. Kassavetis, A. Laskarakis, N. A. Hastas, O. Valassiades  
*2nd International Symposium on Flexible Organic Electronics (IS-FOE09)*,

(Χαλκιδική, Ελλάδα, 8-10.07.2009)

47. ***“Academic Entrepreneurship: The Case of Organic Electronics”***  
M. Chachamidou, S. Logothetidis  
*2nd International Symposium on Flexible Organic Electronics (IS-FOE09)*,  
(Χαλκιδική, Ελλάδα, 8-10.07.2009)
48. ***“Ab initio studies on prototype organic semiconductors”***  
G. Volonakis, L. Tsetseris, S. Logothetidis  
*2nd International Symposium on Flexible Organic Electronics (IS-FOE09)*,  
(Χαλκιδική, Ελλάδα, 8-10.07.2009)
49. ***“Effect of Solvent and Deposition Conditions in the Optical Properties of P3HT Thin Films”***  
D. Georgiou, A. Laskarakis, S. Logothetidis, A. Wedel  
*2nd International Symposium on Flexible Organic Electronics (IS-FOE09)*,  
(Χαλκιδική, Ελλάδα, 8-10.07.2009)
50. ***“Optical Properties of Organic Thin Films Deposited via Organic Vapor Phase Deposition for OLED applications”***  
A. Laskarakis, D. Georgiou, S. Logothetidis, N. Meyer M. Heuken, M. Bösing, F. Lindla, H. Kalisch, R. H. Jansen  
*2nd International Symposium on Flexible Organic Electronics (IS-FOE09)*,  
(Χαλκιδική, Ελλάδα, 8-10.07.2009)
51. ***“Effect of Thickness in the Optical Properties of CuPc and C60 thin films for organic photovoltaic applications”***  
D. Georgiou, A. Laskarakis, S. Logothetidis, N. Meyer, M. Heuken, M. Rusu, M.Ch. Lux-Steiner  
*2nd International Symposium on Flexible Organic Electronics (IS-FOE09)*,  
(Χαλκιδική, Ελλάδα, 8-10.07.2009)
52. ***“Transmission Electron Microscopy of Al-doped and un-doped ZnO Thin Films on Flexible Substrates”***  
K. Breza, N. Frangis, I. Tsiaoussis, C. Koidis, S. Logothetidis  
*2nd International Symposium on Flexible Organic Electronics (IS-FOE09)*,  
(Χαλκιδική, Ελλάδα, 8-10.07.2009)
53. ***“Laser ablation nanoparticles”***  
N. G. Semaltianos, S. Logothetidis, W. Perrie, S. Romani, R. J. Potter, S. P. Edwardson, French, M. Sharp, G. Dearden, K. G. Watkins

*2nd International Symposium on Flexible Organic Electronics (IS-FOE09),*  
(Χαλκιδική, Ελλάδα, 8-10.07.2009)

54. **“Modeling of indentation to thin inorganic films grown on flexible polymeric substrates”**  
V.Gountsidou, S.Kassavetis, H.M.Polatoglou, S. Logothetidis  
*2nd International Symposium on Flexible Organic Electronics (IS-FOE09),*  
(Χαλκιδική, Ελλάδα, 8-10.07.2009)
55. **“Influence of Deposition Rate on the Properties of  $\alpha$ -Quaterthiophene Thin Films”**  
C. Pitsalidis, P. Karagiannidis, C. Koidis and S. Logothetidis  
*6th International Conference on Nanosciences & Nanotechnologies- NN09,*  
(Θεσσαλονίκη, Ελλάδα, 13-15.07.2009)
56. **“Biofunctionalization of Carbon Nanomaterials to Promote in-situ Endothelization”**  
V.Karagkiozaki, S.Logothetidis, T.Choli-Papadopoulou, A.Laskarakis,  
A.Melachrinos, E. Pavlidou, P.Karagiannidis, S.Kassavetis, G.Giannoglou  
*6th International Conference on Nanosciences & Nanotechnologies- NN09,*  
(Θεσσαλονίκη, Ελλάδα, 13-15.07.2009)
57. **“An Improved Technique For Calibrating Berkovich Indenter Tip For Ultra Shallow Indentation Depth”**  
I. Zyganitidis, S. Logothetidis  
*6th International Conference on Nanosciences & Nanotechnologies- NN09,*  
(Θεσσαλονίκη, Ελλάδα, 13-15.07.2009)
58. **“Policies Towards Academic Entrepreneurship in Nanotechnology: Lessons from a European Entrepreneurial University”**  
M. Chachamidou, S. Logothetidis  
*6th International Conference on Nanosciences & Nanotechnologies- NN09,*  
(Θεσσαλονίκη, Ελλάδα, 13-15.07.2009)
59. **“Structural characterization of Ti / TiB<sub>2</sub> multi-nano-layer films by means of electron microscopy techniques”**  
Ch. B. Lioutas, N.Z. Vouroutzis, N. Frangis, N. Kalfagiannis, S. Logothetidis  
*6th International Conference on Nanosciences & Nanotechnologies- NN09,*  
(Θεσσαλονίκη, Ελλάδα, 13-15.07.2009)
60. **“Effect of Solvent and Deposition Conditions in the Optical Properties of P3HT**

***Thin***

D. Georgiou, A. Laskarakis, S. Logothetidis and A. Wedel

*6th International Conference on Nanosciences & Nanotechnologies- NN09*,  
(Θεσσαλονίκη, Ελλάδα, 13-15.07.2009)

61. ***“Growth mechanisms and thickness effect on the properties of Al-doped ZnO thin films grown on polymeric substrates”***

C. Koidis, S. Logothetidis, S. Kassavetis, A. Laskarakis, N. A. Hastas, and O. Valassiades

*6th International Conference on Nanosciences & Nanotechnologies- NN09*,  
(Θεσσαλονίκη, Ελλάδα, 13-15.07.2009)

62. ***“Electronic and structural properties of TiB<sub>2</sub>: bulk, surface, and nanoscale effects”***

G. Volonakis, L. Tsetseris, S. Logothetidis

*6th International Conference on Nanosciences & Nanotechnologies- NN09*,  
(Θεσσαλονίκη, Ελλάδα, 13-15.07.2009)

63. ***“LDL Transport in 3D Reconstructed Human RCAs”***

J.V. Soulis, G.D. Giannoglou, D. Fytanidis, V.C. Papaioannou, S. Logothetidis

*6th International Conference on Nanosciences & Nanotechnologies- NN09*,  
(Θεσσαλονίκη, Ελλάδα, 13-15.07.2009)

64. ***“Transmission Electron Microscopy of Al-doped and un-doped ZnO Thin Films on Flexible Substrates”***

K. Breza, N. Frangis, I. Tsiaoussis, C. Koidis, S. Logothetidis

*6th International Conference on Nanosciences & Nanotechnologies- NN09*,  
(Θεσσαλονίκη, Ελλάδα, 13-15.07.2009)

65. ***“Biofunctionalization of PET/SiO<sub>2</sub> surfaces for single molecule experiments and medical applications”***

A. Melachroinos, A. Katranidis, P.G. Karagiannidis, S. Lousinian, S. Logothetidis and T. Choli-Papadopoulou

*6th International Conference on Nanosciences & Nanotechnologies- NN09*,  
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66. ***“Initial Stages of Biological Evaluation of Titanium Diboride Thin Films: Cytotoxicity, Cell Adhesion and Blood Plasma Protein Adsorption Analysis”***

P. Kavatzikidou, S. Lousinian, N. Kalfagiannis, S. Logothetidis, E. Pavlidou, T. Choli-Papadopoulou

*6th International Conference on Nanosciences & Nanotechnologies- NN09*,

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67. **“Simple method for coating Si (100) surfaces with Ferritin monolayers – Iron Oxide Quantum Dots”**  
C. Anetakis, N. Bouroutzis, S. Logothetidis and G. Papadopoulos  
*6th International Conference on Nanosciences & Nanotechnologies- NN09*,  
(Θεσσαλονίκη, Ελλάδα, 13-15.07.2009)
68. **“Effect of the instrumental parameters on the SP measures of KPFM under ambient conditions”**  
N.Mpastas, P.Karagiannidis, S.Kassavetis and S. Logothetidis  
*6th International Conference on Nanosciences & Nanotechnologies- NN09*,  
(Θεσσαλονίκη, Ελλάδα, 13-15.07.2009)
69. **“Evolution of Patents and Implications in Nanotechnology Development”**  
Tsitlakidis, C. Kapnopoulos, M. Chachamidou, G. Volonakis, S. Logothetidis  
*6th International Conference on Nanosciences & Nanotechnologies- NN09*,  
(Θεσσαλονίκη, Ελλάδα, 13-15.07.2009)
70. **“Nanoindentation deformation to inorganic thin films grown on flexible polymeric substrates”**  
S. Kassavetis, and S. Logothetidis  
*6th International Conference on Nanosciences & Nanotechnologies- NN09*,  
(Θεσσαλονίκη, Ελλάδα, 13-15.07.2009)
71. **“Challenges for national & regional support programs to promote academic entrepreneurship in emerging technologies”**  
M. Chachamidou, S. Logothetidis  
*2nd International Conference on Entrepreneurship, Innovation and Regional Development* (Θεσσαλονίκη, Ελλάδα, 24-25.04.2009)
72. **“Spectroscopic Ellipsometry for Nanobiology & Nanomedicine Applications”**  
S. Logothetidis  
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73. **“High pressure Raman study of carotene-encapsulating single-wall carbon nanotubes”**  
J. Arvanitidis, D. Christofilos, G. A. Kourouklis, S. Ves, T. Takenobu, Y. Iwasa, and H. Kataura.  
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75. **“Raman scattering of  $In_xAl_{1-x}N$  alloys with  $0.2 < x < 0.9$ ”**  
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76. **“Long-Term performance of a commercial Thermoelectric Power Generator”**  
E. Hatzikraniotis, K.T. Zorbas, E. Pavlidou, T. Kyratsi, K. M. Paraskevopoulos  
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77. **“IR Reflectivity Studies of Mechanically Alloyed PbTe Nanocrystals”**  
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*Mater. Res. Soc. Symp. Proc. Vol. 1166 p. 1166-N03-12 (2009)*
78. **“Novel composite materials for dental application fabricated by the sol-gel method”**  
X. Chatzistavrou, D. Esteve, E. Hatzistavrou, E. Kontonasaki, K.M. Paraskevopoulos and A.R. Boccaccini  
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79. **“Application of the sol-gel technique for the fabrication of novel dental glass-ceramics”**  
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C. Afouxenidis, X. Chatzistavrou, G. S. Polymeris, N. C. Tsirliganis, G. Kitis, K.M. Paraskevopoulos  
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81. ***“Reinforcement of an autopolymerizing resin (PMMA) used in dental provisional restorations with Ultra Dispersed Diamonds (UDD’s)”***  
Popi Protopapa, Eleana Kontonasaki, Petros Koidis, Konstantinos Paraskevopoulos, Dimitrios Bikiaris  
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82. ***“Application of the sol-gel technique for the fabrication of novel glass-ceramic and composite for dental application”***  
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83. ***“Fabrication of composite materials for dental application following the sol-gel process”***  
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84. ***“Fabrication of bioactive glass/dental ceramics composites by sol-gel method: Characterization and bioactivity investigation”***  
X. Chatzistavrou, D. Esteve, E. Hatzistavrou, E. Kontonasaki, K.M. Paraskevopoulos and A.R. Boccaccini  
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85. ***“The Byzantine Church of “40 Holy Martyrs” in Veliko- Turnovo, Bulgaria: Pigments and Technique”***  
E. Sakellariou, T. Zorba, E. Pavlidou, S. Angelova, K.M. Paraskevopoulos  
*Proceedings of the 7th International Conference of the Balkan Physical Union*, ed. A. Angelopoulos, AIP Conference Proceedings 1203, ISBN 978-0-7354-0740-4 (2009) p. 501
86. ***“Synthesis and Thermoelectric Properties of Bi<sub>2</sub>Se<sub>3</sub>-xS<sub>3</sub> Series”***  
Ch. Iona, E. Hatzikraniotis, K.M. Paraskevopoulos and Th. Kyratsi  
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87. ***“On the Use of Thermoelectric (TE) Applications Based on Commercial Modules: the Case of TE Generator and TE Cooler”***  
K. Zorbas, E. Hatzikraniotis, K.M. Paraskevopoulos and Th. Kyratsi  
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88. ***“Vibrational Properties of Silver-doped Arsenic Chalcogenide Bulk Glasses”***  
Th. Ch. Hasapis, E. Hatzikraniotis, K.M. Paraskevopoulos, K.S. Andrikopoulos, V. Dracopoulos, T. Wagner, S.N. Yannopoulos  
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89. ***“Human PDL fibroblasts proliferation in scaffolds on bioactive glass modified ceramics”***  
Theocharidou A., Tsoptsias K., Konstantinidou K., Kontonasaki E., Sivropoulou A., Panagiotou K., Paraskevopoulos K.M., Koidis P.  
*Proceedings of 33<sup>rd</sup> Annual Congress of European Prosthodontic Association* (Innsbruck, Austria, October 1-3, 2009) p. 128
90. ***“Investigation on the influence of gastric acid on the surface roughness of ceramic materials of metal-ceramic restorations. An in vitro study”***  
Matsou E., Vouroutzis N., Kontonasaki E., Paraskevopoulos K.M., Koidis P.  
*Proceedings of 33<sup>rd</sup> Annual Congress of European Prosthodontic Association* (Innsbruck, Austria, October 1-3, 2009) p.41
91. ***“Comparative bioactivity study of 45S5 and 58S bioglasses in organic and inorganic environment”***  
G. Theodorou, O.M. Goudouri, A. Theocharidou, E. Kontonasaki, X. Chatzistavrou, L. Papadopoulou, K. M. Paraskevopoulos  
*Proceedings of 22nd International Symposium on Ceramics in Medicine (BIOCERAMICS 22)* (Daegu, Korea, October 26-29, 2009) ed. by S. Kim, The Korean Society for Biomaterials, p. 391
92. ***“Study of the bioactive behaviour of hydroxyapatite /SiO<sub>2</sub>-CaO-MgO glass-ceramics synthesized by Transferred Arc Plasma (TAP)”*** (accepted for presentation)  
E. Roumeli, O.M. Goudouri, C.P.Yoganand, L. Papadopoulou, N. Kantiranis, V. Selvarajan, K.M. Paraskevopoulos

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93. ***“Dental ceramics/bioactive glass composites: characterization and mechanical properties investigation”***

O.M. Goudouri, E. Kontonasaki, A. Theocharidou, N. Kantiranis, X. Chatzistavrou, P. Koidis, K.M. Paraskevopoulos

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94. ***“In vitro bioactivity studies of sol-gel derived dental ceramics/bioactive glass composites in periodically renewed biomimetic solution”***

O.M. Goudouri, E. Kontonasaki, L. Papadopoulou, N. Kantiranis, X. Chatzistavrou, P. Koidis, K.M. Paraskevopoulos

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95. ***“Human PDL fibroblasts in scaffolds attached on dental ceramic composite materials”***

A. Theocharidou, K. Tsoptsias, K. Konstantinidou, E. Kontonasaki, A. Sivropoulou, K. Panagiotou, K.M. Paraskevopoulos, P. Koidis

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96. ***“Sol-gel method in fabrication of novel glass-ceramic composite materials for dental application”***

X. Chatzistavrou, D. Esteve, E. Hatzistavrou, E. Kontonasaki, K.M. Paraskevopoulos and A.R. Boccaccini

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97. ***“Towards Luminescence Dating of Turquoise Gemstone Using TL and OSL Methods”***

B. Subedi, D. Afouxenidis, G.S. Polymeris, N.C. Tsirliganis, K.M. Paraskevopoulos, G. Kitis

*Luminescence in Archaeology International Symposia LAIS2009* (9-12 September

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98. ***“Deposition of oxidation resistant zinc coatings on Copper and Leaded Brass substrates with pack cementation process”***  
M.Papazoglou, D.Chaliampalias, G.Vourlias, E.Pavlidou, S.Skolianos, G.Stergioudis, E.K.Polychroniadis  
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99. ***“Microscopical study of the structure of oxidation resistant Yttria stabilized Zirconia (YSZ) coatings deposited with different thermal spray processes”***  
N. Pistofidis, G.Vourlias, D.Chaliampalias, E. Pavlidou, G.Stergioudis, E.K.Polychroniadis  
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100. ***“Influence of Al and Cr alloying elements on the structure and corrosion resistance of zinc coatings formed by pack cementation process”***  
M.Papazoglou, D.Chaliampalias, G.Vourlias, E.Pavlidou, S.Skolianos, G.Stergioudis, E.K.Polychroniadis  
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101. ***“Crystal nucleation in plasma deposited DLC coating during annealing”***  
D. Chaliampalias, G. Vourlias, P. Psyllaki, E. Pavlidou, K. Chrissafis, E.K. Polychroniadis  
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102. ***“Examination of the oxidation protection of zinc coating formed on copper alloys and steel substrates”***  
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103. ***“Examination of the structural transformation of metal ion doped  $WO_3$  powder”***  
M. Papazoglou, D. Chaliampalias, G. Vourlias, E. Pavlidou, G. Stergioudis  
*Proceedings of 7th International Conference of the Balkan Physical Union*, Alexandroupolis, Greece, 9-13 September 2009, pp. 177

104. **“Structural characterization of CF-PVT grown bulk 3C-SiC”**  
A. Mantzari, F. Mercier, M. Soueidan, D. Chaussende, G. Ferro, E.K. Polychroniadis  
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O. Kim Hak, M. Soueidan, G. Ferro, O. Dezellus, A. Andreadou, E.K.  
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106. **“Buckling stabilization and stress reduction in SiC on Si by i-FLASiC processing”**  
A. Andreadou, J. Pezoldt, Ch. Förster, E.K. Polychroniadis, M. Voelskow and W.  
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107. **“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.  
Lorenzini, G. Ferro  
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108. **“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.  
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during growth”**  
A. Mantzari, C.B. Lioutas, E.K. Polychroniadis  
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D. Sakellari, V. Tsakaloudi, V. Zaspalis, E.K. Polychroniadis  
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I. Pappas, C. Theodorou, S. Siskos and C.A. Dimitriadis  
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G. Papageorgiou, D. Bikiaris, K. Chrissafis  
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