

A. Publications in International peer-review Journals.

1. ***“Effect of ion implantation on the mechanical behavior of GaN films”***
P. Kavouras, Ph. Komninou, Th. Karakostas
Thin Solid Films **515** (2007) 3011 – 3018
2. ***“Structural characterization of Na₂O-SiO₂-CaO glass ceramics reinforced with Electric Arc Furnace Dust”***
I. Tsilika and Ph. Komninou,
J. Eur. Ceram. Soc. **27** (2007) 2423-2431
3. ***“Atomic core configurations of the a-screw basal dislocation in wurtzite GaN”***
I. Belabbas, G. Nouet, Ph. Komninou
Journal of Crystal Growth **300** (2007) 212-216
4. ***“Glass-ceramic materials from electric arc furnace dust”***
P. Kavouras, Th. Kehagias, I. Tsilika, G. Kaimakamis, K. Chrissafis, D. Papadopoulos, and Th. Karakostas
Journal of Hazardous Materials **139**, Iss. 3, 424-429 (2007).
5. ***“Strain distribution of thin InN epilayers grown on (0001) GaN templates by molecular beam epitaxy”***
A. Delimitis, Ph. Komninou, G.P. Dimitrakopoulos, Th. Kehagias, J. Kioseoglou, Th. Karakostas, G. Nouet.
Applied Physics Letters **90**, 061920 (2007)
6. ***“EAFD-loaded vitreous and glass-ceramic materials”***
P. Kavouras, Th. A. Ioannidis, Th. Kehagias, I. Tsilika, K. Chrissafis, S. Kokkou, A. Zouboulis, Th. Karakostas
Journal of the European Ceramic Society **27**, Iss. 5, 2317-2323 (2007)
7. ***“Growth modes of nanocrystalline Ni/Pt multilayers with deposition temperature”***
V. Karoutsos, P. Papatirou, P. Pouloupoulos, V. Kapaklis, C. Politis, M. Angelakeris, Th. Kehagias, N.K. Flevaris, E.Th. Papaioannou
Journal of Applied Physics **102**, 043525 (2007)
8. ***“Axial and radial growth of Ni-induced GaN nanowires”***
L. Geelhaar, C. Chèze, W.M. Weber, R. Averbek, H. Riechert, Th. Kehagias, Ph.

Komninou, G.P. Dimitrakopoulos, Th. Karakostas
Applied Physics Letters **91**, 093113 (2007)

9. ***“Hybrid approach to the synthesis of FePt/ Fe₃B nanocomposite magnets”***
O. Crisan, M. Angelakeris, Th. Kehagias, G. Filoti
Journal of Optoelectronics and Advanced Materials **9**, Iss. 9, 2734 – 2737 (2007)
10. ***“3D modelling of misfit networks in the interface region of heterostructures”***
T.D. Young, J. Kioseoglou, G.P. Dimitrakopoulos, P. Dłużewski and Ph. Komninou
Journal of Physics D – Applied Physics **40**, 4084-4091 (2007)
11. ***“Controlled synthesis and phase characterization of Fe-based nanoparticles obtained by thermal decomposition”***
K. Simeonidis, S. Mourdikoudis, M. Moulla, I. Tsiaoussis, C. Martinez-Boubeta, M. Angelakeris, C. Dendrinou-Samara and O. Kalogirou
J. Magn. Magn. Mater. **316**, Issue 2, e1-e4 (2007)
12. ***“Magnetism and magneto-optics of nanocrystalline Ni/Pt multilayers grown by e-beam evaporation at room temperature”***
E. Th. Papaioannou, M. Angelakeris, N. K. Flevaris, P. Fumagalli, Ch. Mueller, A. Troupis, A. Spanou, V. Karoutsos, and P. Pouloupoulos, V. Kapaklis and C. Politis
J. Appl. Phys. **101** 023913 (2007)
13. ***“Electromagnetic waves penetration and magnetic properties of AgPt/Co nanostructures”***
A. Rinkevich, L. Romashev, M. Milyaev, E. Kuztsetsov, M. Angelakeris and P. Pouloupoulos
J. Magn. Magn. Mater. **317**, 15-19 (2007)
14. ***“Oxidation process of Fe nanoparticles”***
K. Simeonidis, S. Mourdikoudis, I. Tsiaoussis, N. Frangis, M. Angelakeris, O. Kalogirou, A. Delimitis and C. Dendrinou-Samara
Modern Physics Letters B **21**, 1143 (2007)
15. ***“Effect of air exposure on structural and magnetic features of FeCo nanoparticles”***
S. Mourdikoudis, K. Simeonidis, M. Angelakeris, I. Tsiaoussis, O. Kalogirou, C. Desvaux, C. Amiens and B. Chaudret

Modern Physics Letters B **21**, 1161(2007)

16. **“Annealing effect on the induced magnetism of Platinum in FePt nanoparticles”**
F. Wilhelm, A. Rogalev, P. Pouloupoulos, M. Angelakeris, J. Tsiaoussis, K. Simeonidis, S. Mourdikoudis and O. Kalogirou
Modern Physics Letters B **21**, 1189 (2007)
17. **“Influence of a complex network substrate on reaction-diffusion processes”**
L. K. Gallos and P. Argyrakis
Journal of Physics: Condensed Matter, **19**, 065123 (2007)
18. **“Using neural nets for eliminating noise in experimental signals”**
G.D.Karatasios, I.P. Antoniadis, E. Fournou, and P. Argyrakis,
Applied Mathematical Sciences, **1**, 915 (2007)
19. **“Evolution of vocabulary on scale-free and random networks”**
A. Kalampokis, K. Kosmidis and P. Argyrakis
Physica A, **379**, 665 (2007)
20. **“Correlation study of the Athens Stock Exchange”**
A. Garas and P. Argyrakis
Physica A, **380**, 399 (2007)
21. **“Improving immunization strategies”**
L. K. Gallos, F. Liljeros, P. Argyrakis, A. Bunde and S. Havlin
Physical Review E, **75**, 045104 (2007)
22. **“Tracer diffusion in ordered lattice-gas systems with defect-controlled transport mechanisms”**
P. Argyrakis, A.A. Chumak and M. Maragakis
Physical Review B, **76**, 054209 (2007)
23. **“Scale free networks resistant to intentional attacks”**
L. K. Gallos and P. Argyrakis
Europhysics Letters, **80**, 58002, (2007)
24. **“Determination of bulk and interface density of states in polycrystalline silicon thin film transistors”**
Arpatzanis, N., Dimitriadis, C.A., Siskos, S., Hatzopoulos, A.A., Kamarinos, G.
Thin Solid Films **515** (19 SPEC. ISS.), pp. 7581-7584 (2007)

25. ***“A new analog buffer using low-temperature polysilicon thin-film transistors for active-matrix, displays”***
Pappas, I., Siskos, S., Dimitriadis, C.A.
IEEE Transactions on Electron Devices **54** (2), pp. 219-224 (2007)
26. ***“1/f noise characterization of amorphous/ nanocrystalline silicon bilayer thin-film transistors”***
Hatzopoulos, A.T., Arpatzani, N., Tassis, D.H., Dimitriadis, C.A., Templier, F., Oudwan, M., Kamarinos, G.
Solid-State Electronics **51** (5), pp. 726-731 (2007)
27. ***“Above-threshold drain current model including band tail states in nanocrystalline silicon thin-film transistors for circuit implementation”***
Pappas, I., Dimitriadis, C.A., Templier, F., Oudwan, M., Kamarinos, G.
Journal of Applied Physics **101** (8), art. no. 084506 (2007)
28. ***“Semi-analytical modeling of short-channel effects in Si and Gesymmetrical double-gate MOSFETs”***
Tsormpatzoglou, A., Dimitriadis, C.A., Clerc, R., Rafhay, Q., Pananakakis, G., Ghibaudo, G.
IEEE Transactions on Electron Devices **54** (8), pp. 1943-1952 (2007)
29. ***“Study of the drain leakage current in bottom-gated nanocrystalline silicon thin-film transistors by conduction and low-frequency noise measurements”***
Hatzopoulos, A.T., Arpatzani, N., Tassis, D.H., Dimitriadis, C.A., Oudwan, M., Templier, F., Kamarinos, G.
IEEE Transactions on Electron Devices **54**(5), pp. 1076-1082 (2007)
30. ***“Current-voltage and noise characteristics of reverse-biased Au/n-GaAs Schottky diodes with embedded InAs quantum dots”***
Arpatzani, N., Tassis, D.H., Dimitriadis, C.A., Charitidis, C., Song, J.D., Choi, W.J., Lee, J.I.
Semiconductor Science and Technology **22** (10), art. no. 002, pp. 1086-1091 (2007)
31. ***“Effect of rapid thermal annealing on the noise properties of InAs/GaAs quantum dot structures”***
Arpatzani, N., Tsormpatzoglou, A., Dimitriadis, C.A., Song, J.D., Choi, W.J., Lee, J.I., Charitidis, C.

Journal of Applied Physics **102** (5), art. no. 054302 (2007)

32. ***“Stability of amorphous-silicon and nanocrystalline silicon thin-film transistors under DC and AC stress”***
A.T. Hatzopoulos, N. Arpatzani, D. H. Tassis, C.A. Dimitriadis, F. Templier, M. Oudwan, and G. Kamarinos
IEEE Electron Dev. Lett. **28**, 803 (2007)
33. ***“Effect of channel width on the electrical characteristics of amorphous/nanocrystalline silicon bilayer thin-film transistors”***
Hatzopoulos, A.T., Arpatzani, N., Tassis, D.H., Dimitriadis, C.A., Templier, F., Oudwan, M., Kamarinos, G.
IEEE Transactions on Electron Devices 54 (5), pp. 1265-1269 (2007)
34. ***“The growth of Pd thin films on 6H-SiC (0001) substrates”***
I. Tsiaoussis, N. Frangis, C. Manolikas, T.A. Nguyen Tan
J. of Cryst. Growth, **300** (2), 368-373 (2007)
35. ***“Ultra thin films with embedded Si nanocrystals fabricated by electrochemical dissolution of bulk crystalline Si in the transition regime between porosification and electropolishing”***
S. Gardelis, I. Tsiaoussis, N. Frangis and A.G. Nassiopoulou
Nanotechnology, **18** (11), 115705 (2007)
36. ***“Influence of grain size on ultrafast carrier dynamics in thin nanocrystalline silicon films”***
E. Lioudakis, A. Othonos, A.G. Nassiopoulou, Ch.B. Lioutas, N. Frangis
Applied Physics Letters, **90** (19), art no 191114 (2007)
37. ***“The role of surface vibrations and quantum confinement effect to the optical properties of very thin nanocrystalline silicon films”***
Emmanouil Lioudakis, Antreas Antoniou, Andreas Othonos, Constantinos Christofides, A.G. Nassiopoulou, Ch.B. Lioutas, N. Frangis
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38. ***“FTIR Reflectivity spectra of Thermoelectric K₂Sb₈Se₁₃ crystals, Proceedings of the 25th International Conference on Thermoelectrics”***
E. Harzikraniotis, Th. Hassapis, Th. Kyratsi, K. M. Paraskevopoulos, M. G. Kanatzidis

IEEE Vol. Nr 06TH8931, p. 573, 2007

39. ***“n-to-p Transition on K₂Bi_{8-x}Sb_xSe₁₃ Series, Proceedings of the 25th International Conference on Thermoelectrics”***
T. Kyratsi, E. Hatzikraniotis, A. Tsiappos, K.M. Paraskevopoulos, M.G. Kanatzidis
IEEE Vol. Nr 06TH8931, p. 590, 2007
40. ***“On the distribution and bonding environment of Zn and Fe in glasses containing Electric Arc Furnace Dust: a μ -XAFS and μ -XRF study”***
F. Pinakidou, M. Katsikini, E. C. Paloura, P. Kavouras, Th. Kehagias, Ph. Komninou, Th. Karakostas, A. Erko
Journal of Hazardous Materials, **142**, 297 (2007)
41. ***“On the local coordination of Fe in Fe₂O₃ – glass and Fe₂O₃ – glass ceramic systems containing Pb, Na and Si”***
F. Pinakidou, M. Katsikini, E. C. Paloura, O. Kalogirou, A. Erko
Journal of Non Crystalline Solids, **353**, 2717 (2007)
42. ***“Modification of the N bonding environment in GaN after high – dose Si implantation: An x-ray absorption study”***
M. Katsikini, F. Pinakidou, E. C. Paloura, F. Boscherini
Journal of Applied Physics, **101**, 83510 (2007)
43. ***“On the thermal stability of vitrified industrial wastes using microscale synchrotron radiation based techniques”***
F. Pinakidou, M. Katsikini, E.C. Paloura
Journal of Applied Physics **102**, 113512 (2007)
44. ***“Raman and near-edge X-ray absorption fine structure characterization of GaN implanted with O, Ar, Xe, Te and Au”***
M. Katsikini, J Arvanitidis, E. C, Paloura, S. Ves, E. Wendler W. Wesch
Optical Materials **29**, p. 1856-1860 (2007)
45. ***“Attachment and Proliferation of Human Periodontal Ligament Fibroblasts on Bioactive Glass Modified Ceramics”***
E. Kontonasaki, A. Sivropoulou, L. Papadopoulou, P. Garefis, K.M. Paraskevopoulos, P. Koidis
Journal of Oral Rehabilitation **34**, 57 (2007)

46. ***“Far Infrared Properties of Sintered NiO”***
M.V. Nikolic, V. Blagojevic, K.M. Paraskevopoulos, T. Zorba, D. Vasiljevic-Radovic, P.M. Nikolic, M.M. Ristic
J. of the European Ceramic Society **27**, 469 (2007)
47. ***“Effect of the end group content on photochromic behaviour of spiropyran in polycaprolactone/poly(ethylene succinate) blends”***
A. Samoladas, A. Jannakoudakis, D. Bikiaris, K. Chrissafis, K. Paraskevopoulos
Journal of Applied Polymer Science **105**, 3623 (2007)
48. ***“Far Infrared reflection spectroscopy of Zn₂SnO₄ ceramics obtained by sintering mechanically activated ZnO-SnO₂ powder mixtures”***
M.V. Nikolić, T. Ivetic, K.M. Paraskevopoulos, K.T. Zorbas, V. Blagojević, D. Vasiljevic-Radovic
J. of the Eur. Ceram. Soc. **27**, 3727 (2007)
49. ***“Comparative study of the effect of different nanoparticles on the thermal degradation mechanism of in situ prepared poly(ε-caprolactone) nanocomposites”***
K. Chrissafis, G. Antoniadis, K.M. Paraskevopoulos, A. Vassiliou and D.N. Bikiaris.
Composites Science and Technology **67**, 2165 (2007)
50. ***“Far infrared reflectance of sintered nickel-manganite samples for negative temperature coefficient thermistors”***
M. V. Nikolić, K.M. Paraskevopoulos, O.S. Aleksić, T.T. Zorba, S.M. Savić, V.D. Blagojević, D.T. Luković, P. M. Nikolić
Materials Research Bulletin **42**, 1492 (2007)
51. ***“Synthesis, characterization and thermal degradation mechanism of three poly(alkylene adipate)s: Comparative study”***
T. Zorba, K. Chrissafis, K.M. Paraskevopoulos and D.N. Bikiaris.
Polymer Degradation and Stability **92**, 222 (2007)
52. ***“Local structure and influence of bonding on the phase-change behavior of the chalcogenide compounds K_{1-x}Rb_xSb₅S₈”***
J.B. Wachter, K. Chryssafis, V. Petkov, C. Malliakas, D. Bilc, T. Kyratsi, K.M. Paraskevopoulos, S.D. Mahanti, T. Torbrugge, H. Eckert, M. Kanatzidis
J. of Solid State Chemistry **180**, 420 (2007)

53. ***“Spinodal Decomposition and Nucleation and Growth as a Means to Bulk Nanostructured Thermoelectrics: Enhanced Performance in $Pb_{1-x}Sn_xTe-PbS$ ”***
J. Androulakis, C.-H. Lin, H.-J. Kong, C. Uher, C.-I. Wu, T. Hogan, B.A. Cook, T. Caillat, K. M. Paraskevopoulos, M. G. Kanatzidis
Journal of the American Chemical Society **129**, 9780 (2007)
54. ***“Investigation of thermal degradation mechanism of an aliphatic polyester using pyrolysis-gas chromatography-mass spectrometry and a kinetic study of the effect of the amount of polymerisation catalyst”***
D.N. Bikiaris, K. Chrissafis, K.M. Paraskevopoulos, K.S. Triantafyllidis, E.V. Antonakou
Polymer Degradation and Stability, **92**, 525 (2007)
55. ***“Infrared and Raman vibrational spectroscopies reveal the palette of frescos found in the medieval Monastery of Karaach- Teke”***
T. Zorba, K.S. Andrikopoulos, K.M. Paraskevopoulos, K. Popkonstantinov, R. Kostova, V. Platnyov,
Sister Daniilia Annali di Chimica **97**, 491 (2007)
56. ***“Synthesis, characterization and thermal degradation mechanism of fast biodegradable PPSu/PCL block copolymers”***
S. Papadimitriou, D.N. Bikiaris, K. Chrissafis, K.M. Paraskevopoulos, S. Mourtas
Journal of Polymer Science Part A: Polymer Chemistry **45**, 5076 (2007)
57. ***“Far Infrared Properties of bulk Sintered and thin film Zn_2SnO_4 ”***
M.V. Nikolic, T. Ivetic, D.L. Young, K.M. Paraskevopoulos, T.T. Zorba, V. Blagojevic, P.M. Nikolic, D. Vasiljevic-Radovic, M.M. Ristic
Materials Science and Engineering B **138** 7 (2007)
58. ***“Effect of ageing on optical and thermal properties of $YBa_2Cu_3O_{7-x}$ ”***
P.M. Nikolic, S.S. Vujatovic, K.M. Paraskevopoulos, K.T. Zorbas, S.M. Savic, M.V. Nikolic, M.M. Ristic
Int. Journ. of Mat. Res. (formerly: Zeitschrift fuer Metallkunde) **98**, 569 (2007)
59. ***“Characterization and thermal degradation mechanism of isotactic Polypropylene/carbon black nanocomposites”***
K. Chrissafis, K. M. Paraskevopoulos, S.Y. Stavrev, A. Docoslis, A. Vassiliou and D.N. Bikiaris

Thermochimica Acta **465**, 6 (2007)

60. ***“Far infrared properties of single crystal jarandolite-Ca[B₃O₄(OH)₃]”***
P.M. Nikolić, S. Đurić, K. Paraskevopoulos, T.T. Zorba, D. Luković, S. Savić, V. Blagojević, M.V. Nikolić
Mineralogical Magazine **71**, 273 (2007)
61. ***“Far infrared properties of sintered PbTe doped with boron”***
P. M. Nikolic, K. M. Paraskevopoulos, T. T. Zorba, E. Pavlidou, N. Kantiranis, S. S. Vujatovic, O. A. Aleksic, M. V. Nikolic, T. Ivetic, S. Savic, N. Labus, V. Blagojevic
Science of Sintering **39**, 223 (2007)
62. ***“Investigation of the Hydroxyapatite Growth on Bioactive Glass Surface”***
G. A. Stanciu, I. Sandulescu, B. Savu, S. G. Stanciu, K.M. Paraskevopoulos, X. Chatzistavrou, E. Kontonasaki, P. Koidis
Journal of Biomedical and Pharmaceutical Engineering **1**, 34 (2007)
63. ***“Early stages of human plasma proteins adsorption probed by Atomic Force Microscope”***
K. Mitsakakis, S. Lousinian and S. Logothetidis
Biomolecular Engineering, Volume **24**, Iss. 1, 119-124, (2007)
64. ***“Haemocompatibility of amorphous hydrogenated carbon thin films, optical properties and adsorption mechanisms of blood plasma proteins”***
S. Lousinian, S. Logothetidis, A. Laskarakis and M. Gioti
Biomolecular Engineering, Volume **24**, Iss. 1, 107-112 (2007)
65. ***“Optical properties of proteins and protein adsorption study”***
S. Lousinian and S. Logothetidis
Microelectronic Engineering, Volume **84**, Is. 3, 479-485, (2007)
66. ***“Study of the electronic and vibrational properties of poly(ethylene terephthalate) and poly(ethylene naphthalate) films”***
A. Laskarakis, S. Logothetidis
Journal of Applied Physics **101** (5), 053503 (2007)
67. ***“Pentaheptide allotropes of carbon nanotubes”***
M. Damnjanović, G. Volonakis, S. Logothetidis, Z. Popović, I. Milošević

AIP Conference Proceedings **899**, pp. 53-56 (2007)

68. **“Nanoscale patterning and deformation of soft matter by scanning probe microscopy”**
S. Kassavetis, K. Mitsakakis, S. Logothetidis
Materials Science and Engineering C **27** (5-8 SPEC. ISS.), pp. 1456-1460 (2007)
69. **“Electromechanical switch based on pentaheptite nanotubes”**
I. Milosević, Z. Popović, G. Volonakis, S. Logothetidis, M. Damnjanović
Physical Review B - Condensed Matter and Materials Physics **76** (11), 115406 (2007)
70. **“Role of N defects on thermally induced atomic-scale structural changes in transition-metal nitrides”**
L. Tsetseris, N. Kalfagiannis, S. Logothetidis, S.T. Pantelides
Physical Review Letters **99** (12), art. no. 125503 (2007)
71. **“Haemocompatibility of carbon based thin films”**
S. Logothetidis
Diamond and Related Materials **16** (10), pp. 1847-1857 (2007)
72. **“Surface and temperature effect on fibrinogen adsorption to amorphous hydrogenated carbon thin films”**
S. Lousinian, S. Kassavetis, S. Logothetidis
Diamond and Related Materials **16** (10), pp. 1868-1874 (2007)
73. **“Dispersion relations and optical properties of amorphous carbons”**
S. Kassavetis, P. Patsalas, S. Logothetidis, J. Robertson, S. Kennou
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74. **“Color dependency on optical and electronic properties of TiNx thin films”**
Kalfagiannis, N., Logothetidis, S.
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75. **“Nanotechnology in flexible electronic devices: Principles - Processes and applications”**
Logothetidis, S.
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76. ***“Impedance Modelling of Two-Phase Solid State Ionic Conductors. Part I – Theoretical Model and Computer Simulations”***
E.E. Horopanitis, G. Perentzis and L. Papadimitriou
J. Solid State Electrochem. **11**, 1171 (2007)
77. ***“Impedance Modelling of Two-Phase Solid State Ionic Conductors. Part II – Application to High-Lithium-Content $x\text{Li}_2\text{O}-\text{B}_2\text{O}_3$ Fast-Ion Conducting Glasses”***
E. E. Horopanitis, G. Perentzis and L. Papadimitriou
J. Solid State Electrochem. **11**, 1183 (2007)
78. ***“Dielectric properties of Li doped Li-Nb-O thin films”***
G. Perentzis, E.E. Horopanitis, L. Papadimitriou, V. Durman, V. Saly and J. Packa
Physica Status Solidi (c) **4**, 1246 (2007)
79. ***“The effect of bismuth on the structure of zinc hot-dip galvanized coatings”***
Pistofidis N, Vourlias G, Konidaris S, Pavlidou E, Stergiou A, Stergioudis G.
MATER LETT **61** (4-5): 994-997, (2007)
80. ***“Porous scaffolds prepared by phase inversion using supercritical CO₂ as antisolvent - I. Poly(L-lactic acid)”***
Tsivintzelis I, Pavlidou E, Panayiotou C
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81. ***“Potentiodynamic and potentiostatic deposition of polyaniline on stainless steel: Electrochemical and structural studies for a potential application to corrosion control”***
Sazou D, Kourouzidou M, Pavlidou
E. ELECTROCHIM ACTA **52** (13): 4385-4397, (2007)
82. ***“The combined effect of nickel and bismuth on the structure of hot-dip zinc coatings”***
Pistofidis N, Vourlias G, Konidaris S, Pavlidou E, Stergioudis
G. *MATER LETT* **61** (10): 2007-2010, (2007)
83. ***“Surface properties and activity of Fe-Ni-B ternary glasses”***
Patsalas P, Lekatou A, Pavlidou E, Foulis S, Kamaratos M, Enangelakis GA, Yavari AR.
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84. ***“The inclined impact test: A novel method for the quantification of the adhesion properties of PVD films”***
Bouzakis KD, Asimakopoulos A, Skordaris G, Pavlidou E, Erkens G.
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85. ***“Meat and bone meal as secondary fuel in fluidized bed combustion”***
Fryda, L; Panopoulos, K; Vourliotis, P; Kakaras, E; Pavlidou, E.
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86. ***“Oxygen reduction at platinum- and gold-coated copper deposits on glassy carbon substrates”***
Tegou, A; Papadimitriou, S; Pavlidou, E; Kokkinidis, G; Sotiropoulos, S.
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87. ***“Optimizing melt-processing conditions for the preparation of iPP/fumed silica nanocomposites: Morphology, mechanical and gas permeability properties”***
Vassiliou, A; Bikiaris, D; Pavlidou, E.
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88. ***“On the corrosion mechanism of zinc pack coatings deposited on low carbon steel: results of laboratory tests”***
Vourlias, G; Pistofidis, N; Chaliampalias, D; Pavlidou, E; Stergioudis, G.
CORROSION ENGINEERING SCIENCE AND TECHNOLOGY **42** (2):152-160, (2007)
89. ***“Study of the structure of wear resistant thermal sprayed coatings on low alloy steels.”***
Katenidis, V; Chaliampalias, D; Pistofidis, N; Vourlias, G; Pavlidou, E; Stergiou, A; Stergioudis, G.
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90. ***“Miscibility and enzymatic degradation studies of poly(epsilon-caprolactone)/poly(propylene succinate) blends”***
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91. ***“Deposition of zinc coatings with fluidized bed technique”***

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92. ***“Compositional study of IIIrd century BC silver coins from Kreshpan hoard (Albania) using EDXRF spectrometry”***
N. Civici, Sh. Gjongecaj, F. Stamati, T. Dilo, E. Pavlidou, E.K. Polychroniadis, Z. Smit
Nuclear Instruments and Methods in Physics Research B **258** (2007) 414-420
93. ***“Study of the structure of hot-dip galvanizing byproducts”***
G. Vourlias, N. Pistofidis, El. Pavlidou, G. Stergioudis, E.K. Polychroniadis
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94. ***“On overview on the solid byproducts of the galvanizing kettle”***
G. Vourlias, N. Pistofidis, G. Stergioudis, E.K. Polychroniadis
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95. ***“On the phase sequence formation of zinc protective coatings on low carbon steel in fluidized bed reactor”***
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98. ***“Second-order Raman study of double-wall carbon nanotubes under high pressure”***
K. Papagelis, J. Arvanitidis, D. Christofilos, K. S. Andrikopoulos, T. Takenobu, Y.

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99. ***“Comparative high pressure Raman study of isolated and bundled single-wall carbon nanotubes”***
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100. ***“Raman and X-ray absorption near-edge structure characterization of GaN implanted with O, Ar, Xe, Te and Au”***
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101. ***“High Pressure Raman Study of the Second-Order Vibrational modes of Single- and Double-Wall Carbon Nanotubes”***
K. Papagelis, K. S. Andrikopoulos, J. Arvanitidis, D. Christofilos, C. Galiotis, T. Takenobu, Y. Iwasa, H. Kataura, S. Ves, and G. A. Kourouklis.
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102. ***“Encapsulation effects in various carbon nanotube systems Raman study of polycrystalline PbWO₄ under high pressure”***
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104. ***“Multicyclic study of the carbonation of CaO using different limestones”***
K. Chrissafis,
J. Therm. Anal. Cal., **89** (2007) 525
105. ***“Resistance of zinc thermal sprayed coatings on different corrosive environments”***
G. Vourlias, N. Pistofidis, D. Chaliampalias, K. Chrissafis, El. Pavlidou, G. Stergioudis,
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106. ***“Zinc coatings for oxidation protection of ferrous substrates. Part I: Macroscopic examination of the coating oxidation”***

G. Vourlias, N. Pistofidis, K. Chrissafis, G. Stergioudis,
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107. ***“Zinc coatings for oxidation protection of ferrous substrates. Part II: Microscopic examination of the coating oxidation-Study of the oxidation mechanism”***

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B. Publication in International Conference Proceeding Volumes

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

Smalc J., Komninou Ph., Sahonta S-L., Karakostas Th., Tsiakatouras G., Georgakilas A
Proceedings of the 8th Multinational Congress on Microscopy, Prague, Czech Republic, July 2007, pp. 175-176

2. ***“Epitaxial growth of single crystalline GaN nanowires on (0001) Al₂O₃”***

Th. Kehagias, Ph. Komninou, G.P. Dimitrakopulos, 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

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

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4. ***“Control of structural and magnetic characteristics on core (FePt)-shell (Fe₃O₄) nanoparticles”***

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

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

5. ***“Pt-Co multilayers: Interface effects at the monolayer limit”***
M. Angelakeris, E.Th. Papaioannou, P. Pouloupoulos, A. Vlachos, F. Wilhelm, A. Rogalev and N.K. Flevaris
European Congress on Advanced Materials and Processes, Nürnberg-Germany, 10 – 13 September 2007
6. ***“Novel multilayer combination of CoCr and Pt with adjustable perpendicular anisotropy”***
E. Th. Papaioannou, P. Fumagalli, M. Angelakeris, I. Tsiaoussis, P. Pouloupoulos
European Congress on Advanced Materials and Processes, Nürnberg-Germany, 10 – 13 September 2007
7. ***“Surface/interface induced phenomena on Fe-based nanoparticles”***
M. Angelakeris, P. Pouloupoulos, K. Simeonidis, S. Mourdikoudis, F. Wilhelm, A. Rogalev and O. Kalogirou
ICFPM-6th International Conference on Fine Particle Magnetism, New Trends in Particle Magnetism, Rome-Italy, 09 – 12 October 2007
8. ***“Effect of synthesis parameters on morphology and magnetism of Co-based nanoparticles”***
K. Simeonidis, S. Mourdikoudis, I. Tsiaoussis, C. Dendrinou-Samara, M. Angelakeris and O. Kalogirou
ICFPM-6th International Conference on Fine Particle Magnetism, New Trends in Particle Magnetism, Rome-Italy, 09 – 12 October 2007
9. ***“Influence of morpho - structural features on the magnetic properties of Ag/Co core-shell nanoparticles”***
O. Crisan, A. D. Crisan, and M. Angelakeris
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10. ***“Vocabulary and its evolution on complex networks”***
A. Kalampokis, K. Kosmidis and P. Argyrakis
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11. ***“Priority of motion in systems of two kinds of non-interacting particles”***

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12. ***“Percolation threshold in a system with discs of growing radii”***
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13. ***“Blinking as a Tool of Quantum Dot OLEDs Studies”***
Panos Argyrakis, Vladimir Lidsky, Roman Vasiliev, Dmitry Dirin, Vasily Zalunin, and Alexei Vitukhnovsky
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14. ***“Analytical modelling of short channel effects in Si sub-30 nm symmetrical gate-all-around MOSFETs”***
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Proceedings “Nitride based nanostructures” International workshop, Berlin, Germany, February 06-09, 2007
16. ***“Crystal properties of GaN nanowires grown by molecular beam epitaxy”***
Th. Kehagias, Ph. Komninou, G.P. Dimitrakopoulos, Th. Karakostas, G. Nouet, C. Cheze, L. Geelhaar, and H. Riechert
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17. ***“Structural Characterization of InGaN/GaN quantum wells on (0001) sapphire by HRTEM”***
S.-L. Sahonta, G.P. Dimitrakopoulos, Ph. Komninou, Th. Karakostas, C. Salcianu, and T. Thrush
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18. ***“InN thin films and nanostructures grown on (0001) GaN by molecular beam epitaxy”***

A. Delimitis, Ph. Komninou, G.P. Dimitrakopoulos, Th. Kehagias, J. Kioseoglou, J. Arvanitidis, M. Katsikini, E.C. Paloura, S. Ves, Th. Karakostas, G. Nouet, E. Dimakis, A. Georgakilas
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19. ***“OptiLab: Design and Development of an Integrated Virtual Laboratory for Teaching Optics”***
E. Hatzikraniotis, G. Bisdikian, A. Barbas, D. Psillos
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20. ***“Design and Implementation of Integrated Laboratory Activities with Measurements, Data Analysis and Modeling”***
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21. ***“Integrated Laboratory Activities with Measurements, Data Analysis and Modeling in Introductory Physics”***
E. Hatzikraniotis, M. Tsakiri
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22. ***“Investigating Aspects of Modelling in Electrostatics”***
E. Petridou, D. Psillos, E. Hatzikraniotis, J. Viiri
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23. ***“Laboratory Teaching with Measurements, Data Analysis and Modelling: An Introductory Course for Future Physics Teachers”***
M. Tsakiri, E. Hatzikraniotis
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25. ***“Extended defects in InGaN/GaN quantum well heterostructure LEDs grown on sapphire and silicon substrates”***

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26. ***“Air quality impact assessment of a pilot plant used for the treatment and stabilization of solid wastes”***

A. Poupkou, D. Melas, G. Kaimakamis, P. Kavouras, Th. Kehagias, Th. Karakostas

Proceedings of the 11th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Cambridge, UK, July 2007, pp 145-149

27. ***“Changes of structural, optical and electrical properties of nickel-manganite ceramics induced by additional mechanical activation”***

M.V. Nikolic, S.M. Savic, O.S. Aleksic, K.M. Paraskevopoulos, T.T. Zorba, V. Blagojevic, P.M. Nikolic

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28. ***“The separation of Natural from Synthetic Amethyst based on the 3595 cm⁻¹ band”***

S. Karampelas, E. Fritsch, T. Zorba., K.M. Paraskevopoulos, S. Sklavounos

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29. ***“MnS Clusters into Zeolite Matrices”***

F. Iacomi, C. Radoi, E. Pavlidou, K. M. Paraskevopoulos, N. Vouroutzis, E.K. Polycroniadis

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K. Zorbas, E. Hatzikraniotis, K.M. Paraskevopoulos

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32. ***“Effect of Multiple Firings and Annealing of Low and High Fusing Dental Ceramics, on Crystal Structure, Fracture Toughness, Micro-Hardness and Young’s Modulus”***

A. Theoharidou, N. Kantiranis, P. Kavouras, E. Kontonasaki, X. Chatzistavrou, K.M. Paraskevopoulos, P. Koidis

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34. ***“Thermal Behaviour of Bionanocomposites: Fumed Silica Nanoparticles Dispersed in Poly(Vinyl Pyrrolidone), Chitosan and Poly(Vinyl Alcohol)”***

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36. ***“Impact of surface electric properties on the haemocompatibility of amorphous***

hydrogenated carbon thin films”

V.Karagkiozaki, S.Logotheidis, S.Lousinian,

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37. ***“Growth mechanisms of silicon oxide nano-layers grown onto polymeric substrates for flexible electronics applications”***

D. Georgiou, A. Laskarakis, C. Koidis, N. Goktsis, S. Logotheidis

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38. ***“Growth, optical and nanostructural properties of magnetron sputtered ZnO thin films deposited on polymeric substrates”***

C. Koidis, S. Logotheidis, D. Georgiou, A. Laskarakis, N. Goktsis, S. Lousinian, I. Tsiaoussis and N. Frangis

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39. ***“Real-time Spectroscopic Ellipsometry for Protein Adsorption Study and pH Effect”***

S. Lousinian, S. Logotheidis

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40. ***“Investigation of the Optical Properties of Organic-Inorganic Hybrid Polymers by IR to Vis-fUV Spectroscopic Ellipsometry”***

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41. ***“In-situ and real-time investigation of ZnO thin films growth onto rigid and flexible substrates”***

C. Koidis, S. Logotheidis, D. Georgiou and A. Laskarakis

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42. ***“In-Situ & Real-Time Monitoring of High Barrier Layers Growth onto Polymeric Substrates”***

D. Georgiou, S. Logothetidis, C. Koidis, and A. Laskarakis
Poster Presentation in 4th International Conference on Spectroscopic Ellipsometry,
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43. ***“Optical and Surface Properties of Organic-Inorganic Hybrid Polymers onto Flexible Substrates”***

A. Laskarakis, S. Logothetidis, D. Georgiou, N. Goktsis, S. Amberg-Schwab, U. Weber

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44. ***“Haemocompatibility studies on boron nitride and carbon thin Films”***

S.Lousinian, N. Kalfagiannis, S. Logothetidis

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45. ***“Support mechanisms towards Commercialization of Nanotechnology Public Research”***

M. Chachamidou, S. Logothetidis

Oral Presentation in 4th International Conference on Nanosciences & Nanotechnologies- NN07, 16-18 July 2007, Thessaloniki, Greece

46. ***“Optical & Surface Properties of Spin-Coated PEDOT: PSS Thin Films”***

S. Logothetidis, Ch. Evangelis, T. Altantzis, C. Gravalidis, D. Georgiou, S. Lousinian
Poster Presentation in 4th International Conference on Nanosciences & Nanotechnologies- NN07, 16-18 July 2007, Thessaloniki, Greece

47. ***“Thin film and interface properties during ZnO deposition onto high-barrier Hybrid/PET flexible substrates”***

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48. ***“Investigation of the effect of surface properties and stoichiometry on thrombogenicity of titanium nitride thin films”***

V.Karagkiozaki, S.Logothetidis, S.Lousinian, G.Giannoglou, N.Kalfagianis

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49. ***“In-situ and Real-time Protein Adsorption Study by Spectroscopic Ellipsometry”***

S.Lousinian, S. Logothetidis

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50. ***“Real-time Fibrinogen Adsorption Study by Spectroscopic Ellipsometry”***

S.Lousinian, S. Logothetidis

Poster presentation in the International Conference on Nanomedicine 9 – 11 September 2007, Chalkidiki, Greece

51. ***“Nanodiamond formation in hydrogenated amorphous carbon thin films”***

S.Kassavetis, S. Lousinian, S. Logothetidis, I.Tsiaoussis, N. Frangis

Poster Presentation in 3rd International Conference Micro & Nano 2007 on Microelectronics, Microsystems & Nanotechnology, 18 – 21 November 2007, NCSR Demokritos, Athens, Greece

52. ***“Comparative Study of Nanoindentation Creep in Polymeric Materials”***

I. Zyganitidis, S. Kassavetis, A. Laskarakis and S. Logothetidis

Poster Presentation in MRS Fall Meeting 2007, 27 – 2 December in Boston, MA, U.S.A.

53. ***“Nanomechanical Properties of Treated Polymers”***

S. Kassavetis, Ch. Gravalidis, A. Laskarakis and S. Logothetidis

Oral Presentation in MRS Fall Meeting 2007, 27 – 2 December in Boston, MA, U.S.A.

54. ***“Electrical behaviour of $\text{LiCoO}_2/\text{LiNbO}_3$ thin film structure”***

V. Durman, V. Saly, J. Packa, E.E. Horopanitis, G. Perentzis and L. Papadimitriou

Proc. of 8th ABA (Advanced Batteries & Accumulators) Conf., June 2007, Brno-Czech Republic, p.31, 2007

55. ***“Electrical properties of “Li-doped” LiNbO_3 ionic conductors and “Lithium-free” LiNbO_3 -electrolyte/Cu-anode bi-layers”***

E.E. Horopanitis, G. Perentzis P. Karagiannidis and L. Papadimitriou

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56. ***“Microstructural Study of Super-hard Coatings with TEM and SEM”***

D. Chaliampalias, G. Vourlias, N. Pistofidis, L. Kolaklieva, R. Kakanakov, I. Tsiaoussis, E. Pavlidou, G. Stergioudis, E.K. Polychroniadis

AIP Conference Proceedings -- April 23, 2007 -- Volume **899**, pp. 455-456, *6th International Conference of the Balkan Physical Union*, (doi:10.1063/1.2733233)

57. ***“On the effect of zinc melt composition on the structure of hot-dip galvanized coatings”***

S. Konidaris, N. Pistofidis, G. Vourlias, E. Pavlidou, A. Stergiou, G. Stergioudis, E. K. Polychroniadis

AIP Conference Proceedings -- April 23, 2007 -- Volume **899**, p. 796, *6th International Conference of the Balkan Physical Union* (doi:10.1063/1.2733537)

58. ***“Structure analysis of corrosion resistant thermal sprayed coatings on low alloy steels”***

D. Chaliampalias, G.Vourlias, N. Pistofidis, E. Pavlidou, A. Stergiou, G. Stergioudis, E.K. Polychroniadis

AIP Conference Proceedings -- April 23, 2007 -- Volume **899**, p. 797, *6th International Conference of the Balkan Physical Union* (doi:10.1063/1.2733538)

59. ***“Microscopical examination of Ancient silver coins”***

N. Pistofidis, G. Vourlias, E. Pavlidou, T. Dilo, N.Civici, F.Stamati, Sh. Gjongecaj, I Prifti, O.Bilani, G. Stergioudis, E. K. Polychroniadis

AIP Conference Proceedings -- April 23, 2007 -- Volume **899**, p. 798, *6th International Conference of the Balkan Physical Union* (doi:10.1063/1.2733539)

60. ***“Microstructural study of zinc hot-dip galvanized coatings with titanium additions in zinc melt”***

S. Konidaris, N. Pistofidis, G. Vourlias, E. Pavlidou, A. Stergiou, G. Stergioudis, E. K. Polychroniadis

AIP Conference Proceedings -- April 23, 2007 -- Volume **899**, p. 799, *6th International Conference of the Balkan Physical Union* (doi:10.1063/1.2733540)

61. ***“Reinforcement of Al-Fe-Ni alloys with the in situ formation of composite materials”***

G. Vourlias, N. Pistofidis, E. Pavlidou, G. Stergioudis

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62. ***“Nano-phenomena during exposure of plasma-sprayed ceria stabilised zirconia coatings to oxygen rich environments”***

G. Vourlias, N. Pistofidis, P. Psyllaki, E. Pavlidou, K. Chrissafis

Proceedings of the 14th International Symposium on Metastable and Nano

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63. ***“Plasma-Sprayed YSZ coatings: Microstructural features and resistance to molten metals”***

G. Vourlias, N. Pistofidis, P. Psyllaki, E. Pavlidou, K. Chrissafis

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64. ***“Evaluation of microhardness and oxidation resistance of NiCrBSi coatings deposited with thermal spray and pack cementation process on low carbon steels. A comparative study”***

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

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65. ***“On the structured imperfections of bulk GaSb using High Resolution Transmission Electron Microscopy”***

E.K. Polychroniadis, G. Zoulis, S. Konidaris, C. Lioutas, D.Stróz

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66. ***“A TEM Study of the factors affecting the two types of compositional modulation in GaInAsSb/GaSb films”***

E. Polychroniadis, S. Konidaris, E. Welser, F.F. Dimroth

15th International Conference on Crystal Growth, August 12-17, 2007, Salt Lake City, U.S.A.

67. ***“Structural characterization of CF-PVT grown bulk 3C-SiC”***

A. Mantzari, F. Mercier, M. Soueidan, D. Chaussende, G. Ferro, E.K. Polychroniadis

Materials Science Forum (to be published) International Conference of Silicon Carbide and Related Materials, 14-19 October 2007, Otsu, Japan

68. ***“3C-SiC island formation on 6H-SiC(0001) substrate from a liquid phase”***

O. Kim Hak, M. Soueidan, G. Ferro, O. Dezellus, A. Andreadou, E.K. Polychroniadis, J.C. Viala

Materials Science Forum (to be published) International Conference of Silicon Carbide and Related Materials, 14-19 October 2007, Otsu, Japan

69. ***“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. Skorupa
Materials Science Forum (to be published), International Conference of Silicon Carbide and Related Materials, 14-19 October 2007, Otsu, Japan
70. ***“Lattice-matched GaInAsSb on GaSb for TPV cells”***
E. Welsler, F. Dimroth, A. Ohm, W. Guter, G. Siefer, S. Philipps, J. Schöne, E.K. Polychroniadis, S. Konidaris, A.W. Bett
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