

A. Publications in International peer-review Journals.

1. ***“Thermally activated ionic conduction in LiNbO_3 electrolyte thin films”***
G. Perentzis, E.E. horopanitis, E. Pavlidou and L. Papadimitriou
Mater. Sci. & Engineer, **B108**, 174 (2004).
2. ***“XAFS studies on vitrified industrial waste”***
F. Pinakidou, M. Katsikini, E.C. Paloura, P. Kavouras, Ph. Komninou, Th. Karakostas, A. Erko.
Physica Scripta (in press).
3. ***“Elements-specific hysteresis loops and the anisotropy of the orbital moment of Pt in Ni/Pt multilayers”***
P. Pouloupoulos, F. Wilhelm, Z. Li, H. Wende, K. Baberschke, M. Angelakeris, N.K. Flevaris, A. Rogalev and N.B. Brookes
J. Magn. Magn. Mater. 272-276, **317**, (2004).
4. ***“Correlation of structure and magnetism of AgCo nanoparticle arrays”***
O. Crisan M. Angelakeris, N. Noques, Th. Kehagias, Ph. Komninou, N. Sobal, M. Giersig and N.K. Flevaris.
J. Magn. Magn. Mater. 272-276, **E1253** (2004).
5. ***“The influence of patterned substrates on structure and magnetism of Au/Co multilayers”***
M. Angelakeris, E. Papaioannou, O. Valassiades, N. Vouroutzis, I. Tsiaoussis, Ch. Mueller, P. Fumagalli, I. Kostic, L. Matay and N.K. Flevaris.
J. Magn. Magn. Mater. 272-276, **E1317** (2004).
6. ***“Measurements of the magnetoresistance effect in Co/Pt multilayers grown on patterned substrates”***
E. Papaioannou, K. Simeonidis, O. Valassiades, N. Vouroutzis, M. Angelakeris, P. Pouloupoulos, I. Kostic, N.K. Flevaris
J. Magn. Magn. Mater. 272-276, **E1323** (2004).
7. ***“Magnetic nanostructures obtained by colloidal crystallization onto patterned substrates”***
O. Crisan, M. Angelakeris, E. Papaioannou, A.D. Crisan, N.K. Flevaris, N. Vouroutzis, E. Pavlidou, I. Kostic, N. Sobal and M. Giersig
J. Magn. Magn. Mater. 272-276, **E1285** (2004).
8. ***“Magnetic moment of Au at Au/Co interfaces: A direct experimental determination”***
F. Wilhelm, M. Angelakeris, N. Jaouen, P. Pouloupoulos, E. Th. Papaioannou, Ch. Mueller, P. Fumagalli, A. Rogalev and N.K. Flevaris
Physical Review **B69**, 220404(R) (2004), 35.
9. ***“Ni/Pt multilayers: growth and magneto-optics”***
E.Th. Papaioannou, P. Fumagalli, M. Angelakeris, P. Pouloupoulos, V.

Karoutsos, V. Kapaklis, F. Wilhelm, C. Politis and N.K. Flevaris
Phys. Stat. Sol. (c) 1, No. 12, 3324-3327 (2004).

10. ***“Raman spectroscopic study of carbon substitution in MgB₂”***
J. Arvanitidis, K. Papagelis, K. Prassides, G.A. Kourouklis, S. Ves , T. Takenobu, Y. Iwasa
J. Phys. Chem. Of Solids, **65**, 73-77, (2004).
11. ***“High Pressure Raman Study of Y₃Al₅O₁₂”***
J. Arvanitidis, K. Papagelis, D. Christofilos, H. Kimura, G.A. Kourouklis and S. Ves
Phys. Stat. Sol. **B241**, 3149 (2004).
12. ***“High Pressure Raman Study of BaMoO₄”***
D. Christofilos, J. Arvanitidis, E. Kampasakali, K. Papagelis, S. Ves and G.A. Kourouklis
Phys. Stat. Sol. **B241**, 3155 (2004).
13. ***“Mueller Matrix Spectroscopic Ellipsometry: Formulation and Application”***
A. Laskarakis, E. Pavlopoulou, S. Logothetidis and M. Gioti
Thin Solid Films, **455-456**, 43-49 (2004).
14. ***“FTIR and Vis-FUV real time spectroscopic ellipsometry studies of polymer surface modifications during ion beam bombardment”***
Laskarakis, C. Gravalidis and S. Logothetidis
Nucl. Instr. and Methods in Physics Research B, **216**, 131-136 (2004).
15. ***“Real time monitoring of silicon oxide deposition processes”***
C. Gravalidis, M. Gioti, A. Laskarakis and S. Logothetidis
Surf. Coat. Technol, **180-181**, 655-658 (2004).
16. ***“A complementary spectroscopic ellipsometry study of PET membranes from IR to Vis-FUV”***
A. Laskarakis, M. Gioti, E. Pavlopoulou, N. Poulakis, and S. Logothetidis
Macromolecular Symposia, **205(1)**, 95-104 (2004).
17. ***“Nanomechanical and optical studies on polymeric membranes”***
C. Charitidis, M. Gioti, and S. Logothetidis
Macromolecular Symposia, **205(1)**, 239-250 (2004).
18. ***“The effect of crystal structure and morphology on the optical properties of chromium nitride thin films”***
S. Logothetidis, P. Patsalas, K. Sarakinos, C. Charitidis and C. Metaxa
Surf. Coat. Technol, **180-181**, 637-641 (2004).
19. ***“In-situ monitoring of the electronic properties and growth evolution of TiN films”***
P. Patsalas and S. Logothetidis
Surf. Coat. Technol, **180-181**, 421-424 (2004).

20. ***“Effects of non-deposition energetic species during the growth of boron nitride and amorphous carbon thin films by sputter deposition”***
Y. Panayiotatos, P. Patsalas, M. Handrea and S. Logothetidis
Surf. Coat. Technol, **180-181**,387-391 (2004).
21. ***“Comparison of the nanomechanical and nanoscratch performance of antiscratch layers on organic lenses”***
C. Charitidis, M. Gioti, S. Logothetidis, S. Kassavetis, A. Laskarakis and I. Varsano
Surf. Coat. Technol, **180-181**, 357-361 (2004).
22. ***“IR–FUV ellipsometry studies on the optical, electronic and vibrational properties of polymeric membranes”***
M. Gioti, A. Laskarakis and S. Logothetidis
Thin Solid Films **455-56**, 283-287 (2004).
23. ***“Nanoindentation Studies of multilayer amorphous carbon films”***
S. Logothetidis, S. Kassavetis, C. Charitidis, Y. Panayiotatos and A. Laskarakis
Carbon **42**, 1133-1136 (2004).
24. ***“Surface kinetics and sub plantation phenomena affecting the texture, morphology, stress, and growth evolution of titanium nitride films”***
P. Patsalas., C. Gravalidis and S. Logothetidis
J. App. Phys., **96**, 6234-6246 (2004).
25. ***“Dielectric properties and electronic transitions of porous and nanostructured cerium oxide films”***
S. Logothetidis, P. Patsalas, E. K. Evangelou, N. Konofaos, I. Tsiaoussis and N. Frangis
Materials Science and Engineering B, **109** 69-73 (2004).
26. ***“Optical and nanomechanical study of anti-scratch layers on polycarbonate lenses”***
C. Charitidis, A. Laskarakis, S. Kassavetis, C. Gravalidis and S. Logothetidis
Superlattices and Microstructures, **36**, 171-179 (2004).
27. ***“On the phase transformation in the system $TlBi(Te_{1-x}Se_x)_2$ ”***
K. Chrissafis, E.S. Vinga, M. Ozer, K.M. Paraskevopoulos, E.K. Polychroniadis
Crystal Research and Technology, **39**, 322 (2004).
28. ***“Lattice Thermal Conductivity of $K_2(Bi_{1-z}Sb_z)_8Se_{13}$ Solid Solutions”***
T. Kyratsi, E. Hatzikraniotis, K.M. Paraskevopoulos, J. Dyck, H.K. Shin, C. Uher, and M. Kanatzidis
Journal of Applied Physics **95**, 4140 (2004).
29. ***“Development of HydroxyCarbonate Apatite on hybrid polymers used in***

fixed restorations modified by bioactive glass

B. Georgantzi, L. Papadopoulou, T. Zorba, P. Garefis, K.M. Paraskevopoulos, P. Koidis
Phys. Stat. Sol. (a) **201**, 733 (2004).

30. ***“Following bioactive glass behaviour beyond melting temperature by thermal and optical methods”***
X. Chatzistavrou, T. Zorba, E. Kontonasaki, K. Chryssafis, P. Koidis, K.M. Paraskevopoulos.
Phys. Stat. Sol.(a) **201**, 944 (2004)
31. ***“Crystal/Glass Phase Change in KSb5S8 Studied Through Thermal Analysis Techniques”***
K. Chryssafis, T. Kyratsi, K. Paraskevopoulos, M. Kanatzidis
Chemistry of Materials **16**, 1932 (2004).
32. ***“Investigation of Dental Ceramics coated by Bioactive Glass using Confocal Laser Scanning Microscopy and Environmental Scanning Electron Microscopy”***
G.A. Stanciu, M. Sararoiu, C. Dan, K.M. Paraskevopoulos, X. Chatzistavrou, E. Kontonasaki, P. Koidis
SCANNING **26**, 78 (2004).
33. ***“A post-Byzantine Icon of St. Nicholas painted on Leather Support: Microanalysis and Characterisation of Technique”***
V. Ganitis, E. Pavlidou, F. Zorba, K. Paraskevopoulos, D. Bikiaris
Journal of Cultural Heritage. **5**, 349 (2004).
34. ***“Electron Cyclotron Resonance deposition, structure and properties of oxygen incorporated hydrogenated diamond-like amorphous carbon films”***
G. Adamopoulos, C. Godet, T. Zorba, K.M. Paraskevopoulos, D. Ballutaud
Journal of Applied Physics, 96(10) 5456 (2004).
35. ***“Phase Transformation in CuAgSe: a DSC and Electron Diffraction Examination”***
K. Chrissafis, N. Vouroutzis, K.M. Paraskevopoulos, N. Frangis, C. Manolikas
Journal of Alloys and Compounds **385**, 169 (2004).
36. ***“Thermal characterization of carbonate rocks from Kozani area, North-Western Macedonia, Greece”***
C. Dagounaki, K. Chrissafis, A. Kassoli-Fournaraki, A. Tsirambides, C. Sikalidis, K.M. Paraskevopoulos.
Journal of Thermal Analysis and Calorimetry **78**, 295 (2004).
37. ***“Structure and magnetic properties of Sm₉(Co_{1-x}Zr_x)₄ alloys”***
G. Litsardakis, S.S. Makridis, M. Danii, K.G. Efthimiadis, E. Pavlidou, I. Tsiaoussis, N. Frangis and A.C. Stergiou
J of Magn. and Magn. Materials, **272-276** (2004), p. e377-e379.

38. ***“Structural and magnetic properties of rare earth-iron-cobalt-vanadium intermetallic compounds (R: Tb, Dy)”***
D. Hadjiapostolidou, M. Gjika, C. Sarafidis, E. Pavlidou, T. Bakas, O. Kalogirou
J. Alloys and Compounds, 367 (2004), p. 255-261.
39. ***“The effect of coating thickness, mechanical strength and hardness properties on the milling performance of PVD coated cemented carbides inserts”***
Bouzakis KD, Hadjiyiannis S, Skordaris G, Mirisidis J, Michailidis N, Efstathiou K, Pavlidou E., Erkens G, Cremer R, Rambadt S, Wirth I.
Surface & Coating Tehnologie, **177-178**, p. 657-664 (2004).
40. ***“Influence of alloying elements on the structure and on the corrosion resistance of the galvanized coatings”***
G. Vourlias, N. Pistofidis, G. Stergioudis, E. Pavlidou, D. Tsipas
Phys. Stat. Sol. (a) **201**, No. 7 (2004), p. 1518-1527.
41. ***“The inclined impact test, an efficient method to characterize coatings' cohesion and adhesion properties”***
K.D. Bouzakis, A. Asimakopoulos, N. Michailidis, S. Kompogiannis, G. Maliaris, G. Giannopoulos, E. Pavlidou, G. Erkens
Thin Solid Films **469-470** (2004), p. 254-262.
42. ***“The influence of the Ni addition on the structure of the Zn hot-dip galvanized coatings, studied by Optical and Electron Microscopy”***
N. Pistofidis, G. Vourlias, E. Pavlidou, E.K. Polychroniadis
Optical & Electron Microscopy, G.I.T. Imag. & Microscopy **4**, p. 53-53, (2004).
43. ***“Interfaces and defect interactions in nitride compound semiconductors for optoelectronic applications”***
Ph. Komninou, G.P. Dimitrakopoulos, Th. Kehagias, J. Kioseoglou and Th. Karakostas
Recent Res. Devel. Physics **4**, 593-629 (2003) ISBN : 81-7895-078-2.
44. ***“Microstructural assessment of InN-on-GaN films grown by plasma-assisted MBE”***
Ph. Komninou, Th. Kehagias, A. Delimitis, G.P. Dimitrakopoulos, J. Kioseoglou, E. Dimakis, A. Georgakilas and Th. Karakostas
Surlattices and Microstructures **36**, 509-515 (2004).
45. ***“Electrical transport and low frequency noise characteristics of Au/n-GaAs Schottky diodes containing InAs quantum dots”***
N.A. Hastas, D.H. Tassis, C.A. Dimitriadis, L.Doza, S. Franchi, and P. Frigeri “Semicond. Sci. and Technol. **19**, 461 (2004).
46. ***“Low frequency noise in offset gated polysilicon thin-film transistors”***
N.A. Hastas, C. A. Dimitriadis, and G. Kamarinos

IEEE Electron Dev. Lett. **51**, 828 (2004).

47. ***“Anomalous hot-carrier induced degradation of offset gated polycrystalline silicon thin-film transistors”***
A. Hatzopoulos, C. A. Dimitriadis, G. Ghibaudo, and G. Kamarinos
Appl. Phys. Lett. **84**, 3163 (2004).
48. ***“Change in transfer and low frequency noise characteristics of n-channel polysilicon thin-film transistors due to hot-carrier degradation”***
Hatzopoulos, N. Archontas, N.A. Hastas, C.A. Dimitriadis, G. Kamarinos, N. Georgoulas, and A. Thanailakis
IEEE Electron Dev. Lett. **25**, 390 (2004).
49. ***“Correlation of the generation-recombination noise with reliability issues of polycrystalline silicon thin-film transistors”***
N.A.Hastas, C.A.Dimitriadis, and G.Kamarinos
Appl. Phys. Lett. **85**, 311 (2004).
50. ***“Investigation of single electron traps induced by InAs quantum dots embedded in GaAs layer using the low frequency noise technique”***
N.A. Hastas, C.A. Dimitriadis, L. Dozsa, E. Gombia, and R. Mosca
J. Appl. Phys. **96**, 5735 (2004).
51. ***“Multicarrier analysis of semiconducting films by including the effect of magnetoresistance: Application in β -FeSi₂ films”***
D.H. Tassis, D. Evangelinos, O. Valassiades, and C.A. Dimitriadis
J. Appl. Phys. **96**, 6504 (2004).
52. ***“Crystallization of amorphous Fe_{75-x}AgSi₉B₁₆”***
K. Chrissafis
Thermochemica Acta, **411**, 7 (2004).
53. ***“Combined study of crystallization of Fe_{75-x}Ni_xSi₉B₁₆ amorphous alloy”***
K.G. Efthimiadis, K. Chrissafis and E.K. Polychroniadis
Mat. Sci and Engin. (A), **366**, 322 (2004).
54. ***“Magnetic properties and structural characteristics of interstitially modified Nd₃(Fe_{1-x}Co_x)_{27.7}Ti_{1.3}N_y”***
C. Sarafidis, M. Gjoka, T. Bakas, K. Chrissafis
J. Mag. Mag. Materias, **287**, 45 (2004).
55. ***“Instabilities in Crystallization and Magnetic behavior of Fe-Si-b amorphous alloys”***
G.A. Stergioudis, G. Vourlias, H. Morawiec, D. Stroz, and E.K. Polychroniadis
Materials Research Bulletin **39**, 231-236 (2004).
56. ***“Cubic AgPb_mSbTe_{2+m}: Bulk Thermoelectric Materials with High Figure of Merit”***
K.F. Hsu, S. Loo, F. Guo, W. Chen, J.S. Dyck, C. Uher, T. Hogan, E.K.

Polychroniadis, and M.G. Kanatzidis
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57. ***“Microstructural characterization of very thick freestanding 3C-SiC wafers”***
E.K. Polychroniadis , M. Syvajarvi , R. Yakimova and J. Stoemenos
J. Crystal Growth, **263**, 68-75 (2004) .
58. ***“Corrosion mechanism under accelerated atmospheric conditions”***
G. Vourlias, N. Pistofidis, G. Stergioudis, E.K. Polychroniadis, D. Tsipas
J. Optoelectronics and Advanced Materials, **6**, 315-320 (2004).
59. ***“Magnetization experiments on frozen ferrofluids”***
O. Michele, J. Hesse, H. Bremers, E.K. Polychroniadis, K.G. Efthimiadis
and H. Ahlers
J. Phys. Condens. Matter, **16**, 427-443 (2004).
60. ***“Magnetization experiments on frozen ferrofluids”***
O. Michele, J. Hesse, H. Bremers, E.K. Polychroniadis, K.G. Efthimiadis
and H. Ahlers
Festkörperphysik der Deutschen Physikalischen Gesellschaft, Dresden, 2003
Verhandl. DPG (VI) **39**, 305 (2004).
61. ***“Defect status near the SiC/substrate interface: Investigation of the first stage of the growth by physical vapour transport”***
A. Mantzari, E.K. Polychroniadis, J. Wollweber, A. Freudenberg, C. Balloud
and J. Camassel
J. Crystal Growth, accepted for publication
Proceedings of the 14th International Conference on Crystal Growth,
Grenoble, France, August 9-13, 2004.
62. ***“Growth and structural characterization of GaInAsSb films on GaSb substrates”***
A. Amariei, E.K. Polychroniadis, F. Dimroth, A.W. Bett
J. Crystal Growth, accepted for publication
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Grenoble, France, August 9-13, 2004.
63. ***“The combined role of nickel and boron on the nucleation and growth of Fe-based non-crystalline alloys”***
G. Stergioudis, G. Vourlias, N. Pistofidis, K. Chrissafis, E.K. Polychroniadis
J. Crystal Growth, accepted for publication
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Grenoble, France, August 9-13, 2004.
64. ***“A negative effect of the insoluble particles of dross on the quality of the galvanized coatings”***
G. Vourlias, N. Pistofidis, G. Stergioudis, E. K. Polychroniadis
Solid State Sciences (accepted for publication).

65. ***“Structural characterization of thin 3C-SiC films annealed by the flash lamp process”***
 E. Polychroniadis, J. Stoemenos, G. Ferro, Y. Monteil, D. Panknin, W. Skorupa
 10th International Conference on Silicon Carbide and Related Materials 2003, Lyon, France, October 5-10, 2003
 Materials Science Forum **457-460**, 351-354 (2004).
66. ***“Stable parameter range for 3C-SiC sublimation growth on graphite”***
 J. Wollweber, A. Mantzari, E.K. Polychroniadis, C. Balloud, A. Freudenberg, R. Nitschke, J. Camassel
 10th International Conference on Silicon Carbide and Related Materials 2003, Lyon, France, October 5-10, 2003
 Materials Science Forum **457-460**, 143-146 (2004).
67. ***“Flash lamp supported deposition of 3C-SiC (FLASiC) – a promising technique to produce high quality cubic SiC layers”***
 W. Skorupa, W. Anwand, D. Panknin, M. Voelskow, G. Ferro, Y. Monteil, A. Leycuras, J. Pezoldt, R. McMahon, M. Smith, J. Camassel, J. Stoemenos, E. Polychroniadis, P. Godignon, N. Mestres, D. Turover, S. Rushworth, A. Friedberger
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 Materials Science Forum **457-460**, 175-180 (2004).
68. ***“Growth and characterisation of heavily Al doped 4H-SiC layers grown by VLS in Al-Si melts”***
 C. Jacquier, G. Ferro, C. Balloud, M. Zilienski, J. Camassel, E. Polychroniadis, J. Stoemenos, Y. Monteil
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 Materials Science Forum **457-460**, 735-738 (2004).
69. ***“Formation of 3C-SiC films embedded in SiO₂ by sacrificial oxidation”***
 D. Panknin, P. Godignon, N. Mestres, E.K. Polychroniadis, J. Stoemenos, G. Ferro, J. Pezoldt, W. Skorupa
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 Materials Science Forum **457-460**, 1515-1518 (2004).
70. ***“Potential of HMDS/C₃H₈ precursor system for the growth of state of the art heteroepitaxial 3C-SiC layers on Si(100)”***
 G. Ferro, J. Camassel, S. Juilaguet, C. Balloud, E.K. Polychroniadis, Y. Stoemenos, P. Seigle-Ferrand, J. Dazord, Y. Monteil, S.A. Rushworth and L.M. Smith
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71. ***“Investigation of thick 3C-SiC films re-grown on 35nm thin “Flash Lamp Annealed” 3C-SiC layers”***
 G. Ferro, D. Panknin, J. Stoemenos, C. Balloud, J. Camassel, E.K. Polychroniadis, Y. Monteil, W. Skorupa
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 Materials Science Forum **457-460**, 313-316 (2004).
72. ***“Some recent progress in 3C-SiC growth. A TEM characterization (invited)”***
 E.K. Polychroniadis, A. Andreadou, A. Mantzari
 Proceedings of the 4th Romanian Conference on Advanced Materials, ROCAM 2003, Constanta, Romania, September 15-18, 2003.
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73. ***“Nucleation control in FLASIC assisted short time liquid phase epitaxy by melt modification”***
 J. Pezoldt, E.K. Polychroniadis, Th. Stauden, G. Ecke, T. Chassagne, P. Venngues, A. Leycuras, D. Panknin, J. Stoemenos and W. Skorupa
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 Materials Science Forum **483-485**, 213-216 (2004).
74. ***“Comparative evaluation of free-standing 3C-SiC crystals”***
 E.K. Polychroniadis, C. Balloud, S. Juillaguet, G. Ferro, Y. Monteil, J. Camassel and J. Stoemenos
 5th European Conference on Silicon Carbide and Related Materials, Bologna, Italy, August 31 - September 4, 2004
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75. ***“Epitaxial SiC formation at the SiO₂/Si interface by C⁺ Implantation into SiO₂ and subsequent annealing”***
 M. Voelskow, D. Panknin, E.K. Polychroniadis, G. Ferro, P. Godignon, N. Mestres, W. Skorupa, Y. Monteil, J. Stoemenos
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 Materials Science Forum **483-485**, 233-236 (2004).
76. ***“PVT-growth and characterization of single crystalline 3C-SiC on a (0001) 6H-SiC substrate”***
 E.K. Polychroniadis, A. Mantzari, A. Freudenberg, J. Wollweber, R. Nitschke, T. Frank, G. Pensl, A. Schoner
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77. ***“Microstructural characterization of 3C-SiC thin films grown by flash lamp induced liquid phase epitaxy”***
 G. Ferro, D. Panknin, E.K. Polychroniadis, Y. Monteil, W. Skorupa, J. Stoemenos

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78. ***“Is the Al Solubility limit in SiC temperature dependent on not?”***
C. Jacquier, G. Ferro, M. Zielinski, E.K. Polychroniadis, A. Andreadou, J. Camassel and Y. Monteil
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79. ***«Deposition of hydroxyapatite thin films by Nd-YAG laser ablation: a microstructural study»***
L. C. Nistor, C. Ghica, V.S. Teodorescu, S.V. Nistor, M. Dinescu, D. Matei, N. Frangis, N. Vouroutzis, C. Lioutas.
Mater. Res. Bull. **39** (13), 2089-2101 (2004).
80. ***“Oscillations in the α -Si/S(n)/Si(p) device: Embedding and Correlation dimensions”***
K. Kyritsi, A.N. Anagnostopoulos and G.L. Bleris
Chaos, Soliton & Fractals, **21**, 741 (2004).
81. ***“On the influence of noise in the evaluation of the oscillations in the α -Si/S(n)/Si(p) device”***
K. Kyritsi and A.N. Anagnostopoulos
Chaos, Solitons & Fractals, **21**, 651 (2004).
82. ***“The period doubling route to chaos of a second order non-linear non-autonomous chaotic oscillator-part I”***
S. Stavrinos, N. Deliolanis, K. Kyritsi, A.N. Anagnostopoulos, A. Tamasevicius and A. Cenys
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83. ***“The period doubling route to chaos of a second order non-linear non-autonomous chaotic oscillator-part II”***
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Chaos, Solitons & Fractals, **21**, 651 (2004).
84. ***“Diffusion driven spreading phenomena: The structure of the hull of the visited territory”***
E. Arapaki, P. Argyrakis and A. Bunde
Physical Review E, **69**, 031101 (2004).
85. ***“Absence of kinetic effects in reaction-diffusion processes in scalefree networks”***
L.K. Gallos and P. Argyrakis
Physical Review Letters, **92**, 138301 (2004).
86. ***“Michaelis-Menten kinetics under spatially constrained conditions:***

Applications to mibefradil pharmacokinetics

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87. ***“Tolerance of scale-free networks: from friendly to intentional attack strategies”***
L.K. Gallos, P. Argyrakis, A. Bunde and S. Havlin
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88. ***“Computational study of energy transfer in two-dimensional J-aggregates”***
L.K. Gallos, P. Argyrakis, A. Lobano and A. Vitukhnovsky
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89. ***“Drug Dissolution, Release and Uptake: Modeling and Monte Carlo Simulations,***
A. Dokoumetsidis, K. Kosmidis, P. Argyrakis and P. Macheras
90. ***“Effect of composition and annealing temperature on the mechanical properties of a vitrified waste”***
P. Kavouras, Ph. Komninou, Th. Karakostas
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B. Publication in International Conference Proceeding Volumes

1. ***“Modeling of impedance spectroscopic data as a means of determining the electrical properties of multiple phases in solid state ionic conductors”***
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2. ***“Influence of annealing temperature and substitution of Mn with Al in the spinel LiMn_2O_4 cathode powders”***
G. Perentzis, E.E. Horopanitis and L. Papadimitriou
5th ABA-2004 (Advanced Batteries and Accumulators) Conference, June 2004, Brno-Czech Republic, p. 162 (2004).
3. ***“Rare Earth Aluminum Garnets: Raman and IR Investigation”***
S. Ves, K. Papagelis, J. Arvanitidis, D. Christofilos and G.A. Kourouklis
Proceedings of the XVI National Symposium on Condensed Matter Physics of Serbia Montenegro (Sokobanja-Serbia), p. 288-291, Invited.
4. ***“Surface and interface properties of amorphous carbon layers on rigid and flexible substrates”***
S. Logothetidis
Invited talk in EMRS 2004 SYMPOSIUM J, May 24 - 28, 2004, Strasbourg, France.
5. ***“Effects of energetic species during the growth of Nitrogenated amorphous carbon thin films on their Nanomechanical properties”***
C. Charitidis, P. Patsalas, S. Logothetidis,
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6. ***“Nanomechanical and nanotribological properties of carbon based films”***
C. Charitidis, S. Logothetidis,
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46. 7. ***“Field emission properties of sputtered tetrahedral amorphous carbon films deposited at room temperature”***
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Robertson and S. Kennou
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C. Charitidis, A. Laskarakis, S. Kassavetis, C. Gravalidis and S.
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12. ***“Haemocompatibility studies on carbon-based thin films by ellipsometry”***
Logothetidis S., M. Gioti, S. Lousinian, and S. Fotiadou
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13. ***“Nanostructured carbon matches for soft and hard matter applications”***
S. Logothetidis
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14. ***“Surface and interface morphology and structure of amorphous carbon thin and multilayer films”***
P. Patsalas, S. Logothetidis, and P.C. Kelires
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15. ***“Optical and electronic properties of polymeric materials”***
A. Laskarakis, S. Logothetidis and M. Gioti
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16. ***“Topography of amorphous carbon surfaces, ultra-thin films and multilayer structures”***
P. Patsalas, S. Logothetidis, P.C. Kelires
Oral Presentation in SMAC, September 9-10, 2004, Trento, Italy.
17. ***“Current Situation and future prospects of Nanotechnology in Greece”***
S. Logothetidis, M. Chachamidou
Poster Presentation in 1st International Conference Nanoroadmap - Present

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18. ***“Real-time monitoring and sensing of the growth processes of oxides on polymeric substrates”***
M. Gioti and S. Logothetidis
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19. ***“Mechanical and tribological testing of nanolaminated Carbon based films for protection of optical systems”***
S. Kassavetis, P. Patsalas, S. Logothetidis
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P. Patsalas and S. Logothetidis
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22. ***“A post-Byzantine icon of St. Nicholas painted on a leather support. Microanalysis and characterization of technique”***
V. Ganitis, E. Pavlidou, T. Zorba, K.M. Paraskevopoulos, D. Bikiaris
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P. Koidis, K.M. Paraskevopoulos, M. Sararoiu, C. Dan, G.A. Stanciu
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A. Amariei, X. Chatzistavrou, Al. Stavriniadis, O. Valasiades, K.M. Paraskevopoulos, E.K. Polychroniadis
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26. ***“On the synthesis and characterization of polycrystalline GaSb suitable for TPV applications”***
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30. ***“Properties of β -FeSi₂ Quantum Structures Grown on Silicon”***
L. Dosza, G. Molnar, A. Toth, E. Horvath, Z. Osvath, N. Vouroutzis, K. Paraskevopoulos, C.A. Dimitriadis, L. Papadimitriou
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Proceedings in special volume in NATO Science Series.

31. ***“Thermoelectric Properties of β -K₂Bi_{8-x}Sb_xSe₁₃ Solid Solutions. A promising Series for High Temperature Applications”***
T. Kyratsi, D-Y Chung, J.S. Dyck, C. Uher, E. Hatzikraniotis, K.M. Paraskevopoulos, M.G. Kanatzidis
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G. Vourlias, N. Pistofidis, P. Patsalas, E. Pavlidou, G. Stergioudis, E.K. Polychroniadis
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34. ***“Formation of MnS Clusters into Laumontite Zeolite”***
F. Iacomi, A. Vasile, C. Radoi, E. Pavlidou, V. Vouroutzis, Ch. Lioutas, E.K. Polychroniadis.
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36. ***“Electron microscopic investigation of mineral phases formed during the sorption of uranium from aqueous solutions on nanocrystalline Al- and Fe- doped titanium phosphates”***
E. Pavlidou, S. Makridis, G. Galios, S. Sarri, D. Zamboulis, I. Zhuravlev and V.V. Strelko
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37. ***“Microscopy as a tool for the documentation of old mortars”***
E. Pavlidou, M. Stefanidou and I. Papayianni
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38. ***“Mechanical properties and morphological examination of isotactic polypropylene /SiO₂ Nanocomposites containing PP-G-MA as compatibilizer”***
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41. ***“Enhanced Halogen Detection in the Visible and Infrared spectral range”***
G. Asimellis, S. Hamilton, A. Giannoudakos and M. Kompitsas
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42. ***“Studies of ultra shallow N⁺-P junctions formed by low-energy As-implantation”***
D. Girginoudi, N. Georgoulas, A. Thanailakis and E.K. Polychroniadis

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43. ***“Potential of Vapour-Liquid-Solid mechanism for silicon carbide homoepitaxy at low temperature”***
C. Jacquier, G. Ferro, M. Zielinsky, J. Camassel, J. Stoemenos, E.K. Polychroniadis, P. Godignon, F. Abdou, F. Cauwet, Y. Monteil
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44. ***“3C-SiC crystal grown with a Solution Growth - Float Zone method”***
J.L. Santailier, A. Serres, B. Ferrand, A. Basset, J. Pesenti, C. Balloud, J. Camassel, A. Mantzari and E.K. Polychroniadis
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45. ***“Ferroelectric properties of organic materials: investigation on microtubules”***
I. Samaras
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46. ***“Thin film Technology and Nanotechnology Predictions”***
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47. ***“Electron diffraction and HREM study of the catalytic system LaMnO₃-CeO₂-PdO_x”***
Ch. B. Lioutas, N. Vouroutzis, N. Frangis, E. Tzibilis, N. Moschoudis and S. Papachristou
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