

**1. Papers in Refereed Journals**

1. “Electron inelastic mean free paths in biological matter based on dielectric theory and local-field corrections”,  
D. Emfietzoglou, I. Kyriakou, I. Abril, R. Garcia-Molina, I.D. Petsalakis, H. Nikjoo and A. Pathak,  
Nucl. Instr. and Meth. Phys. Res. B 267, 45 (2009).  
[DOI:10.1016/j.nimb.2008.11.008](https://doi.org/10.1016/j.nimb.2008.11.008)
  
2. “Theoretical study of adsorption of group IIIA nitrides on Si(111)”,  
D. Tzeli, I.D. Petsalakis and G. Theodorakopoulos,  
J. Phys. Chem. C 113, 5563 (2009).  
[DOI:10.1021/jp810838s](https://doi.org/10.1021/jp810838s)
  
3. “Triphenylamine-based receptors in selective recognition of dicarboxylic acids”,  
K. Ghosh, G. Masanta, R. Fröhlich, I.D. Petsalakis and G. Theodorakopoulos,  
J. Phys. Chem. B 113, 7800 (2009).  
[DOI:10.1021/jp901151w](https://doi.org/10.1021/jp901151w)
  
4. “Theoretical study of highly excited  $^1\Sigma^+$  and  $^1\Pi$  states of NaLi and experimental observation of the interacting  $5^1\Sigma^+$  and  $6^1\Sigma^+$  states”,  
I.D. Petsalakis, G. Theodorakopoulos, A. Grochola, P. Kowalczyk and W. Jastrzebski,  
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[DOI:10.1016/j.chemphys.2009.07.004](https://doi.org/10.1016/j.chemphys.2009.07.004)
  
5. “Emitting and electron-transfer electronic states of tertiary amine-fluorophore sensor systems”,  
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6. “Theoretical study of adsorption and diffusion of group IIIA metals on Si(111)”,  
D. Tzeli, I.D. Petsalakis and G. Theodorakopoulos,  
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[DOI:10.1021/jp903389r](https://doi.org/10.1021/jp903389r) [[Supporting information](#)]
  
7. “Theoretical investigation of the ground and low-lying excited states of gallium and indium silicides, GaSi and InSi”,  
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[DOI:10.1063/1.3271244](https://doi.org/10.1063/1.3271244)

8. “Low-lying absorption and emission spectra of pyrene, 1,6-dithiaperylene and tetrathiafulvalene: a comparison between ab initio and time-dependent density functional methods”,  
I. Kerkines, I.D. Petsalakis, G. Theodorakopoulos and W. Klopper,  
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9. “Optical control of molecular switches”,  
I. Thanopoulos, P. Kral, M. Shapiro and E. Paspalakis,  
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10. “Preface: Special issue on quantum control of matter and light”,  
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13. “A functional of the one-body-reduced density matrix derived from the homogeneous electron gas: Performance for finite systems”,  
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15. “Optical and magnetic properties of boron fullerenes”,  
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28. “Thermoelectric figure of merit of  $\tau$ -(EDO-S,S-DMEDT-TTF)<sub>2</sub>(AuBr<sub>2</sub>)<sub>1+y</sub> (y<0.875) and (TMTSF)<sub>1</sub>PF<sub>6</sub>”,  
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30. “A combined synchrotron powder diffraction and vibrational study of the thermal treatment of palygorskite-indigo to produce Maya Blue”,  
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56. “The effect of Au and Pt nanoclusters on the structural and hydrogen sensing properties of SnO<sub>2</sub> thin films”,  
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64. “Planar Bragg grating sensors - Fabrication and applications: A review”,

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## **2. Papers in Proceedings of International and National Conferences**

1. “Remarks on the Hylleraas-Undheim and MacDonald higher roots, and functionals having local minimum at the excited states”,

N.C. Bacalis, Z. Xiong and D. Karaoulanis,

Proceedings of the ICCMSE-2008, 25-30 September 2008, Hersonissos, Crete, Greece, Computational Methods in Science and Engineering, Advances in Computational Science, AIP-CP1148, Vol. 2, pp. 372-375 (2009).

2. “Theoretical investigation of the interaction of CH<sub>4</sub> with Al<sub>n</sub> neutral and charged clusters”,

E.I. Alexandrou and N.C. Bacalis,

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## **3. Book Chapters**

1. “The effect of Au nanoclusters on tin oxide film gas sensors”,

G.A. Mousdis, M. Kompitsas, I. Fasaki, M. Sucheia and G. Kiriakidis,

Nanostructured Materials for Advanced Technological Applications, NATO Science for Peace and Security Series B: Physics and Biophysics, Edited by J. P. Reithmaier et al., Springer, pp.219-223, 2009.

## **4. Dissertations**

### **a. PhD theses**

1. “Investigation of the interaction of aluminum clusters with methane”,  
E. Alexandrou, supervisors Drs. N.C. Bacalis and F. Roubani-Kalanzopoulou, School of Chemical Engineering, National Technical University of Athens (2009).
2. “Synthesis and characterization of composite materials with non-linear properties”,  
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3. “Study of NiO, TiO<sub>2</sub> and ZnO thin films for gas sensing and optoelectronic applications”,  
I. Fasaki, supervisors Dr. M. Kompitsas and Prof. F. Roubani-Kalantzopoulou, School of Chemical Engineering, National Technical University of Athens (2009).
4. “Spectroscopic and chemometric methods for olive oil quality assessment and authenticity”,  
K. Poulli, supervisor Dr. G.A. Mousdis, Agricultural University of Athens (2009).
5. “Development of hybrid photonic materials for application in optical sensors”,  
A. Meristoudi, supervisors Dr. S. Pispas, Prof. N. Vainos, University of Patras, Materials Science Department (2009).
6. “Carbon-based nanostructured materials”,  
G. Pagona, supervisor Dr. N. Tagmatarchis, University of Crete, Chemistry Department (2009).

### **b. MSc theses**

1. “Mixed systems of amphiphilic poly(isoprene-b-ethylene oxide) copolymers and zwitterionic surfactants in aqueous media”,  
K. Dimitroulopoulos, supervisor Dr. S. Pispas, University of Athens, Chemistry Department (2009).
2. “Growth and investigation of the structural, electrical and nanomechanical properties of NiO thin films”,  
A. Koutoulaki, supervisors Dr. M. Kompitsas and Prof. C. Charitidis, School of Chemical Engineering, National Technical University of Athens (2009).

### **c. Honors theses**

1. “A metal oxide thin films study and application of Cu<sub>2</sub>O as gas sensor devices”,  
L. Georgiou, supervisors Dr. M. Kompitsas and Prof. D. Tsamakis, School of Electrical Engineering, National Technical University of Athens (2009).

## 5. Publications in Technical Journals / Miscellaneous Publications

1. “Non destructive analysis of decorated ceramics from excavations in Eastern Attica”, E. Aloupi, I Aslani, A.G. Karydas, C. Zarcadas, M. Gika, V. Gionis and G.D. Chryssikos, *From Mesogaia to the Argosaronic – Works of the 2<sup>nd</sup> Eph. Prehist.& Class. Antiq.* 1994-2003, (V. Vassilopoulou and S. Katsarou-Tzeveleki, Eds.), Municipality of Markopoulo Mesogaias, 2009, pp. 93-102.

## 6. Conference Presentations

1. “Theoretical study on donor-acceptor carbon nano-hybrids, and photoinduced charge-transfer”, G. Theodorakopoulos, Cnano '09 International Conference on Carbon Nanostructured Materials; Santorini, Greece, October 4–8, 2009 (oral).

2. “Low-lying absorption and emission spectra of pyrene, dithiapyrene and tetrathiafulvalene: a systematic comparison between ab initio and time-dependent density functional methods”, I.S.K. Kerkines\*, I.D. Petsalakis, G. Theodorakopoulos and W. Klopper, 13<sup>th</sup> International Congress in Quantum Chemistry (ICQC); Helsinki, Finland, June 22–27, 2009 (poster).

3. “Theoretical study of the absorption and emission spectra of charge-transfer compound chromophores: pyrene, dithiapyrene and tetrathiafulvalene”, I.S.K. Kerkines\*, I.D. Petsalakis, W. Klopper and G. Theodorakopoulos, Cnano '09 International Conference on Carbon Nanostructured Materials; Santorini, Greece, October 4–8, 2009 (poster).

4. “Charge migration dynamics on a light-harvesting complex”, I. Thanopoulos, Cnano '09 International Conference on Carbon Nanostructured Materials; Santorini, Greece, October 4–8, 2009 (poster).

5. “Laser-controlled porphyrin-based molecular current router”, I. Thanopoulos, International Commission of Optics (ICO), Topical Meeting on “Emerging trends and novel materials in photonics”; Delphi, Greece, October 4–8, 2009 (oral).

6. “Light-controlled molecular current router”, I. Thanopoulos,

2<sup>nd</sup> Mediterranean conference on nanophotonics, Medinano-2; Athens, Greece, October 26-27, 2009 (oral).

7. “Theoretical study of different modes of binding in supramolecular complexes of ex-TTF with C<sub>60</sub> and C<sub>59</sub>N”,

I.D. Petsalakis\*, D. Tzeli, N. Tagmatarchis, G. Rotas and G. Theodorakopoulos,  
Cnano '09 International Conference on Carbon Nanostructured Materials; Santorini, Greece, October 4–8, 2009 (poster).

8. “Theoretical study of fullerene crown ethers”,

D. Tzeli\*, I.D. Petsalakis and G. Theodorakopoulos,  
Cnano '09 International Conference on Carbon Nanostructured Materials; Santorini, Greece, October 4–8, 2009 (poster).

9. “A correlation energy functional for exact exchange Kohn-Sham theory from reduced density matrix functional theory”,

N. Gidopoulos, N.N. Lathiotakis\* and N. Helbig,  
14<sup>th</sup> International Workshop on Computational Physics and Materials Science: Total Energy and Force Methods; Trieste, Italy, January 08-10, 2009 (poster).

10. “Discontinuity of the chemical potential in reduced density matrix functional theory: open shell formulation”,

N.N. Lathiotakis\*, N. Helbig and E.K.U. Gross,  
Deutsche Physicalische Gesellschaft (DPG), Spring Meeting 2009; Dresden, Germany, March 22-27, 2009 (oral).

11. “Comparisson of the magnetic and optical properties of boron and carbon fullerenes”,

S. Botti, A. Castro, N.N. Lathiotakis\*, X. Andrade and M.A.L. Marques,  
Cnano '09, International Conference on Carbon Nanostructured Materials; Santorini, Greece, October 4–8, 2009 (poster).

12. “Neutron scattering signature of DNA fiber melting: a nonlinear lattice dynamics approach”,

N. Theodorakopoulos,  
Localized Excitations in Nonlinear Complex Systems (LENCOS); Sevilla, Spain, July 14-17, 2009 (invited talk).

13. “Thermal poling-induced nanostructuring in germanate glasses for optical second harmonic generation”,

G. Guimbretiere\*, E.I. Kamitsos and D. Palles,  
6<sup>th</sup> International Conference on Nanosciences and Nanotechnologies-NN09; Thessaloniki, Greece, July 13-15, 2009 (oral).

14. “Orientation phenomena in chromophore DR1-containing polymer films and their non-linear optical response”,

D.C. Monke<sup>\*</sup>, G. Mountrichas, S. Pispas, E.I. Kamitsos and V. Rodriguez,  
6<sup>th</sup> International Conference on Nanosciences and Nanotechnologies- NN09; Thessaloniki,  
Greece, July 13-15, 2009 (oral).

15. “Thermal poling and structural rearrangements in ionic oxide glasses”,  
E.I. Kamitsos,  
6<sup>th</sup> Int’l Discussion Meeting on Relaxations in Complex Systems - 6IDMRCS; Univesrita di  
Roma “La Sapienza”, Rome, Italy, August 30-September 4, 2009 (invited talk).

16. “Thermal poling induced amorphous-to-amorphous transition in germanate glasses”,  
G. Guimbretiere<sup>\*</sup>, E.I. Kamitsos and D. Palles,  
6<sup>th</sup> Int’l Discussion Meeting on Relaxations in Complex Systems - 6IDMRCS; Univesrita di  
Roma “La Sapienza”, Rome, Italy, August 30-September 4, 2009 (poster).

17. “Thermally poled glasses with non-linear optical properties”,  
E.I. Kamitsos,  
Emerging Trends and Novel Materials in Photonics; Delphi, Greece, October 7-9, 2009 (invited  
talk).

18. “Thermal poling-induced second harmonic generation in sodium niobium-germanate  
glasses”,  
G. Guimbretiere<sup>\*</sup>, E.I. Kamitsos and D. Palles,  
Emerging Trends and Novel Materials in Photonics; Delphi, Greece, October 7-9, 2009 (oral).

19. “Second harmonic generation and orientation phenomena in chromophore DR1  
containing polymer films”,  
D. Möncke<sup>\*</sup>, G. Mountrichas, S. Pispas, E.I. Kamitsos, and V. Rodriguez,  
Emerging Trends and Novel Materials in Photonics; Delphi, Greece; October 7-9, 2009 (oral).

20. “Neutral unsymmetrical metal 1,2-dithiole complexes, as candidate materials for optics  
and electronics”,  
G.C. Papavassiliou<sup>\*</sup>, G.C. Anyfantis, A. Terzis, V. Psycharis, C.P. Raptopoulou, P. Kyritsis, P.  
Paraskevopoulou, Y. Takahashi and T. Haseg,  
2<sup>nd</sup> Mediterranean Conference on Nano-photonics (Medi-nano 2); Athens, October 26-27, 2009  
(poster).

21. “Neutral unsymmetrical metal 1,2-dithiole complexes, as candidate materials for optics  
and electronics”,  
G.C. Papavassiliou<sup>\*</sup>, G.C. Anyfantis, A. Terzis, V. Psycharis, C.P. Raptopoulou, P. Kyritsis, P.  
Paraskevopoulou, Y. Takahashi and T. Haseg,  
Cost D35 Workshop, Dithiolenes and non-innocent redox active ligands; Vravra, Attica,  
Greece, June 17-19, 2009 (poster).

22. “Composition dependence of the unit cell dimensions of palygorskite”,

E.T. Stathopoulou, M. Suarez, E. Garcia-Romero, M. Sanchez del Rio, G.H. Kacandes, V. Gionis and G.D. Chryssikos\*,  
XIV International Clay Conference; Castellaneta Marina, Italy, June 14-20, 2009 (oral).

23. “Structure and properties of palygorskite with excess Al”,  
M. Suarez\*, E. Garcia-Romero, G.D. Chryssikos, V. Gionis, G.H. Kacandes and M. Sanchez del Rio,  
XIV International Clay Conference; Castellaneta Marina, Italy, June 14-20, 2009 (oral).

24. “Clays by NIR spectroscopy: An exercise in data mining”,  
G.D. Chryssikos,  
International Conference on Clays, Clay Minerals and Layered Materials-2009; Zvenigorod, Russia, September 21-25, 2009 (invited keynote lecture).

25. “Near-Infrared study of synthetic Maya Blue pigments”,  
C. Tsiantos\*, V. Gionis, G.H. Kacandes and G.D. Chryssikos,  
International Conference on Clays, Clay Minerals and Layered Materials-2009; Zvenigorod, Russia, September 21-25, 2009 (poster).

26. “Synthesis, structure, and physical properties of some new metal- diithiolene complexes”,  
G. Soras , N. Psaroudakis, M.J. Manos, A. J. Tasiopoulos, D.G. Liakos, D. Palles, G.A. Mousdis  
COST D35 Workshop, “Dithiolenes and non-innocent redox-active ligands”; Vravrona-Attiki, Greece, June 18-19, 2009 (poster).

27. “Synthesis of novel transition metal dithiolenes: synthesis, experimental and theoretical investigation”,  
G. Soras\*, N. Psaroudakis, M. J. Manos, A. J. Tasiopoulos, D.G. Liakos, G.A. Mousdis, D. Palles,  
XXV Panhellenic Conference on Solid State Physics and Materials Science; Thessaloniki, Greece, September 20-23, 2009 (oral).

28. “Constituent materials (nanofillers and polymer matrix) and preparation”,  
S. Pispas\*,  
NaPolyNet Workshop “Characterization methodology and tools for new polymer nanostructured materials”; Athens, Greece, May 13-15, 2009 (invited talk).

29. “Hybrid nanostructures from block copolymers and metal nanoparticles”,  
A. Meristoudi, C. Mantzaridis and S. Pispas\*,  
Hybrid Materials 2009; Tours, France, March 15-19, 2009 (poster).

30. “Effect of lithium salt concentration on the self-assembly of PEO-based block copolymer electrolytes”,  
E.F. Ioannou\*, K. Gatsouli, S. Pispas, E.I. Kamitsos and G. Floudas,  
Hybrid Materials 2009; Tours, France, March 15-19, 2009 (poster).

31. “Bio-organic protein/polyelectrolyte hybrids: hen egg white lysozyme complexes with sodium (sulfamate-carboxylate)isoprene polyelectrolytes”,  
M. Karayianni\*, G. Mountrichas, S. Pispas, G. D. Chryssikos and V. Gionis,  
Hybrid Materials 2009; Tours, France, March 15-19, 2009 (poster).
32. “New amphiphilic block copolymers and block polyampholyte self-assembled systems”,  
E. Kaditi, C. Mantzaridis and S. Pispas\*,  
Frontiers in Polymer Science ; Mainz, Germany, June 7-9, 2009 (poster).
33. “Biologically relevant polymeric nanoassemblies: Complexes of amphiphilic and double hydrophilic block copolymers with proteins and DNA”,  
M. Talelli, G. Mountrichas and S. Pispas\*,  
Frontiers in Polymer Science; Mainz, Germany, June 7-9, 2009 (poster).
34. “pH-responsive self-assemblies of amphiphilic block copolymers with poly(sulfamate-carboxylate) isoprene) block in aqueous solutions”,  
M. Stepanek\*, M. Uchman, K. Prochazka, G. Mountrichas and S. Pispas,  
EPF 2009 European Polymer Congress; Graz, Austria, July 12-17, 2009 (oral).
35. “Amphiphilic diblock copolymer nanostructures on mica surfaces studied by atomic force microscopy”,  
M. Kalloudis\*, E. Glynos, S. Pispas, J. Walker and V. Koutsos,  
NN09, 6<sup>th</sup> International Conference on Nanosciences and Nanotechnologies; Thessaloniki, Greece, July 13-15, 2009 (poster).
36. “Development and nonlinear optical properties of block copolymers encapsulating metal nanoparticles”,  
A. Meristoudi\*, K. Illiopoulos, S. Pispas, N. A. Vainos and S. Couris,  
Emerging Trends and Novel Materials in Photonics; Delphi, Greece, October 7-9, 2009 (oral).
37. “Novel micro-nanostructures of common polymers in thin films for photonic applications”,  
L. Athanasekos\*, C. Mantzaridis, S. Pispas and N. A. Vainos,  
Emerging Trends and Novel Materials in Photonics; Delphi, Greece, October 7-9, 2009 (oral).
38. “Polydiene solutions: a surprising versatile non linear optics material”,  
M. Anyfantakis, B. Loppinet\*, G. Fytas, C. Mantzaridis, S. Pispas and H. J. Butt,  
Emerging Trends and Novel Materials in Photonics; Delphi, Greece, October 7-9, 2009 (invited talk).
39. “Nonlinear optical properties of Au and Ag nanoparticles embedded into hybrid block copolymer micelles”,  
G. Chatzikyriakos\*, K. Illiopoulos, S. Couris, A. Meristoudi and S. Pispas,  
Emerging Trends and Novel Materials in Photonics; Delphi, Greece, October 7-9, 2009 (poster).

40. “Functional hybrid synthetic/biological macromolecular assemblies involving block copolymers”,  
S. Pispas,  
Varna 2009 Workshop on “Polymeric Nanocapsules for Biomolecules”; Varna, Bulgaria, October 19-21, 2009 (invited talk).
41. “Covalent and non-covalent functionalization of carbon nanohorns with polymers”,  
G. Mountrichas\*, N. Tagmatarchis and S. Pispas,  
First International Conference on Multifunctional, Hybrid and Nanomaterials; Tours, France, March 15-19, 2009 (oral).
42. “Soluble graphene hybrids”,  
N. Tagmatarchis,  
214<sup>th</sup> ECS Meeting; San Francisco, USA, May 24-29, 2009 (invited talk).
43. “Chemical modification of C<sub>60</sub>@SWNTs upon microwave irradiation”,  
N. Karousis\* and N. Tagmatarchis,  
10<sup>th</sup> International Greece-Cyprus Conference; Crete, Greece, July 2-4, 2009 (oral).
44. “Hybrid materials with heterofullerenes: Azafullerene-extended tetrathiafulvalene (C<sub>59</sub>N-extTTF)”,  
G. Rotas\* and N. Tagmatarchis,  
10<sup>th</sup> International Greece-Cyprus Conference; Crete, Greece, July 2-4, 2009 (poster).
45. “Fullerene hybrid materials with coumarins”,  
G. Pagona\*, H.E. Katerinopoulos and N. Tagmatarchis,  
10<sup>th</sup> International Greece-Cyprus Conference; Crete, Greece, July 2-4, 2009 (poster).
46. “Microwave-induced functionalization and solubilization of CNHs”,  
S.P. Economopoulos\* and N. Tagmatarchis,  
10<sup>th</sup> International Greece-Cyprus Conference; Crete, Greece, July 2-4, 2009 (poster).
47. “Synthesis of novel porphyrin–pyrene/ferrocene–single walled carbon nanotube triads for photovoltaic applications”,  
G. Charalambidis\*, A. Skondra, N. Karousis, S. Economopoulos, N. Tagmatarchis and A. Coutsoulelos,  
16th European Symposium on Organic Chemistry (ESOC); Prague, Czech Republic, July 12-16, 2009 (poster).
48. “Soluble functionalized carbon nanohorns in donor-acceptor nanoensembles”,  
N. Tagmatarchis,  
Workshop on nanotechnology for electronic and photonic applications; Athens, Greece, September 18, 2009 (invited talk).



49. “Carbon-based nanostructured materials”,  
N. Tagmatarchis,  
Workshop & exhibition on nanotechnologies, novel nanostructured and carbon materials;  
Athens, Greece, September 29-30, 2009 (invited talk).
50. “Ionic liquid modified carbon nanohorns”,  
N. Karousis\* and N. Tagmatarchis,  
International conference on carbon-based nanostructured materials (Cnano’09); Santorini,  
Greece, October 4-8, 2009 (poster).
51. “Azafullerene-extended tetrathiafulvalene (C<sub>59</sub>N-extTTF) hybrids”,  
G. Rotas\* and N. Tagmatarchis,  
International conference on carbon-based nanostructured materials (Cnano’09); Santorini,  
Greece, October 4-8, 2009 (poster).
52. “Fullerene-coumarin materials as selective metal receptors”,  
G. Pagona\*, H.E. Katerinopoulos and N. Tagmatarchis,  
International conference on carbon-based nanostructured materials (Cnano’09); Santorini,  
Greece, October 4-8, 2009 (poster).
53. “Solvent-free microwave-assisted functionalization of CNHs”,  
S.P. Economopoulos\* and N. Tagmatarchis,  
International conference on carbon-based nanostructured materials (Cnano’09); Santorini,  
Greece, October 4-8, 2009 (oral).
54. “Electrostatic complexation of polymer decorated carbon nanotubes with porphyrins”,  
G. Mountrichas, S. Pispas\* and N. Tagmatarchis,  
International conference on carbon-based nanostructured materials (Cnano’09); Santorini,  
Greece, October 4-8, 2009 (poster).
55. “Supramolecular architectures with carbon-based nanostructured materials”,  
N. Tagmatarchis,  
3<sup>rd</sup> Hellenic Symposium in Organic Synthesis; Athens, Greece, October 15-17, 2009 (invited  
talk).
56. “Chemistry on graphene and nanotubes”,  
N. Tagmatarchis,  
Science and applications of graphene and nanotubes; Catalonia, Spain, October 19-23, 2009  
(invited talk).
57. “Analytical capabilities of the Demokritos Tandem accelerator in metal oxide thin film  
technology”,  
M. Kompitsas,

Center of Excellence in Low-energy Ion-Beam Research and Applications, Tandem Accelerator Laboratory, Institute of Nuclear Physics, NCSR "Demokritos", Athens, Greece, March 11, 2009 (oral).

<http://www.inp.demokritos.gr/~tandem/tandem/libra/>

58. "On the physical properties of undoped, Al- and In-doped zinc oxide films deposited on PET substrates by pulsed laser deposition",  
M. Girtan, M. Kompitsas\* and I. Fasaki,  
2<sup>nd</sup> Int. Symposium on Flexible Organic Electronics, Halkidiki, Greece, July 8-10, 2009 (poster).
59. "ZnO thin films prepared by pulsed laser deposition",  
M. Tsoutsouva\*, Ch. N. Panagopoulos, D. Papadimitriou, I. Fasaki, M. Kompitsas, N. Galanis and D.E. Manolakos,  
6<sup>th</sup> Int. Conference on Nano-sciences and Nano-technologies, Thessaloniki, Greece, July 13-15, 2009 (poster).
60. "Laser-induced plasma spectroscopy as an efficient analytical tool for elemental determination",  
M. Kompitsas,  
6<sup>th</sup> International Conference "Instrumental Methods of Analysis – Modern Trends and Applications" (IMA2009), Athens, Greece, October 4-8, 2009 (oral).
61. "Methane sensing properties of Cu<sub>x</sub>O thin films deposited by pulsed laser deposition",  
M. Stamataki, V. Georgiou\*, D. Tsamakis and M. Kompitsas,  
International Semiconductor Device Research Symposium, Univ. of Maryland, USA, December 9-11, 2009 (poster).
62. "Effects of Au nanoparticles on the NiO thin film properties and on their application as hydrogen gas sensors",  
I. Fasaki\*, M. Kompitsas and F. Roubani-Kalantzopoulou,  
7<sup>th</sup> Hellenic Conference on Chemical Engineering, Patra, Greece, June 3-5, 2009 (oral).
63. "Growth and investigation of the electrical, structural and nanomechanical properties of NiO thin films",  
A. Koutoulaki\*, I. Fasaki, M. Kompitsas and C. Charitidis,  
7<sup>th</sup> Hellenic Conference on Chemical Engineering, Patra, Greece, June 3-5, 2009 (poster).
64. "Structural and compositional properties of Sm-Fe-Ta magnetic nanospheres prepared by pulsed-laser deposition at 157 nm in N<sub>2</sub>",  
S. Šturm, K. Žužek Rožman, E. Sarantopoulou, Z. Kollia, S. Kobe and A.C. Cefalas\*,  
Trends in Nanotechnology TNT2009; Barcelona, Spain, September 07-11, 2009 (poster).
65. "Icosahedral Ti-Zr-Ni thin films",  
A. Kocjan, G. Dražić, P. McGuinness, E. Sarantopoulou, Z. Kollia, A.C. Cefalas\* and S. Kobe,  
Trends in Nanotechnology TNT2009; Barcelona, Spain, September 07-11, 2009 (poster).

66. “Epitaxial InN/In<sub>2</sub>O<sub>3</sub>-Ta and InN-Si semiconducting nanotextures”,  
E. Sarantopoulou, Z. Kollia, A.C. Cefalas\*, G. Drazic and S. Kobe,  
6<sup>th</sup> International Conference on Nanoscience and Nanotechnologies; Thessaloniki, July 13-15,  
2009 (poster).
67. “Surface modification of PDMS based polymer thin films by 157 nm laser light”,  
E. Sarantopoulou, Z. Kollia and A.C. Cefalas\*,  
6<sup>th</sup> International Conference on Nanoscience and Nanotechnologies; Thessaloniki, July 13-15,  
2009 (poster).
68. “Performance evaluation of GaInNAs-based semiconductor optical amplifiers”,  
D. Alexandropoulos\*, C.T. Politi, M. Vasileiadis, A. Stavdas and N. Vainos,  
ICO - Emerging Trends and Novel Materials in Photonics; Delphi, Greece, October 7-9, 2009,  
(poster).
69. “Performance characteristics of quantum dot microring amplifiers under steady state  
operation”,  
M. Vasileiadis\*, D. Alexandropoulos, M.J. Adams and N. Vainos,  
ICO - Emerging Trends and Novel Materials in Photonics; Delphi, Greece, October 7-9, 2009,  
(poster).
70. “Dynamic response of GaInNAs based VCISOAs”,  
M. Vasileiadis\*, D. Alexandropoulos, C.T. Politi, M. Adams, and N. Vainos,  
Cost Action MP0805 - Novel Gain Materials and Devices Based on III-V-N Compounds - Essex  
scientific meeting; Colchester, UK, May 24, 2009 (poster).
71. “Optical sensor sensitivity enhancement by use of diffraction gratings”,  
M. Vasileiadis\*, L. Athanasekos, D. Alexandropoulos, A. Meristoudi, A. Botsialas, G. Mousdis,  
and N. Vainos,  
ICO - Emerging Trends and Novel Materials in Photonics; Delphi, Greece, October 7-9, 2009,  
(poster).
72. “Surface modification properties of sol-gel and PDMS materials upon 193 nm and 157  
nm laser light illumination”,  
E. Sarantopoulou, Z. Kollia, L. Athanasekos\*, M. Vasileiadis, N. Aspiotis and D.  
Alexandropoulos,  
ICO - Emerging Trends and Novel Materials in Photonics; Delphi, Greece, October 7-9, 2009,  
(poster).
73. “Novel micro-nanostructures of common polymers in thin films for photonic  
applications”,  
L. Athanasekos\*, C. Mantzaridis, S. Pispas and N.A. Vainos,

ICO - Emerging Trends and Novel Materials in Photonics; Delphi, Greece, October 7-9, 2009, (oral).

74. “Development and nonlinear optical properties of block copolymers encapsulating metal nanoparticles”,  
A. Meristoudi\*, K. Iliopoulos, S. Pispas, N.A. Vainos and S. Couris,  
ICO - Emerging Trends and Novel Materials in Photonics; Delphi, Greece, October 7-9, 2009, (oral).

75. “Sensitivity enhancement of ammonia photonic sensor by surface relief modulation”,  
M. Vasileiadis\*, L. Athanasekos, D. Alexandropoulos, A. Meristoudi, A. Botsialas, G. Mousdis, V. Karoutsos and N. Vainos,  
2<sup>nd</sup> Mediterranean Conference on Nano-Photonics Medinano-2; Athens, Greece, October 26-27, 2009 (poster).

76. ”Multilayer oxide grating photonic temperature sensor”,  
L. Athanasekos\*, M. Vasileiadis, A. Tsigara, M.M. Sigalas and N.A Vainos ,  
2<sup>nd</sup> Mediterranean Conference on Nano-Photonics Medinano-2; Athens, Greece, October 26-27, 2009 (poster).

77. “Engineering waveguide dispersion using thin films on silica nanofibre tapers”,  
G. Kakarantzas, C.G. Poulton\* and C. Riziotis,  
8<sup>th</sup> International Photonic & Electromagnetic Crystal Structures Meeting-PECS VIII; Sydney, Australia, April 5-9, 2009 (oral).

78. “Fibre-optic based pressure microsensors”,  
C. Markos\*, K.G. Vlachos and G. Kakarantzas,  
2<sup>nd</sup> Mediterranean Conference on Nano-Photonics Medinano-2; Athens, Greece, October 26-27, 2009 (poster).

79. “Tailoring the waveguide dispersion of silica nanofibers using multiple thin dielectric films”,  
G. Kakarantzas\*, C.G. Poulton and C. Riziotis,  
ICO-Photonics; Delphi, Greece, October 7-9, 2009 (oral).

80. “Fibre-optic interferometric pressure sensor based on droplet-shaped PDMS elastomer”,  
C. Markos\*, K.G. Vlachos and G. Kakarantzas,  
ICO-Photonics; Delphi, Greece, October 7-9, 2009 (oral).