

**1. Papers in Refereed Journals**

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2. “Structure and energetics of InN and GaN dimers”,  
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Chem. Phys. 349, 98 (2008).  
[DOI: 10.1016/j.chemphys.2008.02.051](https://doi.org/10.1016/j.chemphys.2008.02.051)
3. “Theoretical study on the electronic states of NaLi”,  
I.D. Petsalakis, D. Tzeli and G. Theodorakopoulos,  
J. Chem. Phys. 129, 054306 (2008).  
[DOI: 10.1063/1.2956510](https://doi.org/10.1063/1.2956510)
4. “Theoretical study of gallium nitride molecules GaN<sub>2</sub> and GaN<sub>4</sub>”,  
D. Tzeli, G. Theodorakopoulos and I.D. Petsalakis,  
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[DOI: 10.1021/jp8019396](https://doi.org/10.1021/jp8019396)
5. “First principles study of the electronic structure and bonding of Mn<sub>2</sub>”,  
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7. “Photoinduced charge transfer in fullerene-donor dyads: A theoretical study”,  
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8. “Empirical functionals in reduced-density-matrix-functional theory”,  
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10. “Reduced density matrix functional for many-electron systems”,  
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11. “Codoping: A possible pathway for inducing ferromagnetism in ZnO”,  
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12. “Electronic structure and bonding of the 3d-transition metal borides, MB, M = Sc, Ti, V, Cr, Mn, Fe, Co, Ni, and Cu through all electron *ab initio* calculations”,  
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13. “The electron affinity of the gallium nitride GaN and digallium nitride, GaNGa. The importance of the basis set superposition error in strongly bound systems”,  
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18. “Ab-initio calculation of time-dependent control dynamics in polyelectronic systems involving bound and resonance states. Application to a quartet spectrum of He”,  
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## **2. Papers in Proceedings of International and National Conferences**

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6. “The development of a magnetic anti-scaling treatment and its influence on the crystal phase of CaCO<sub>3</sub> produced - industrial applications”,  
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### **3. Book Chapters**

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### **4. Dissertations**

#### **a. PhD theses**

1. “Unsymmetrical metallo-1,2-dichalogenolenes: design, synthesis, properties and possible applications“,

G.C. Anyfantis, supervisor Dr. G.C. Papavassiliou, University of Patras, Chemistry Department (2008).

2. “Hybrid materials based on polymers”,  
G. Mountrichas, supervisor Dr. S. Pispas, University of Athens, Chemistry Dept. (2008).

### **b. MSc theses-**

1. “Nanovessels and nanoreactors from block copolymers”,  
O. Chorianopoulou, supervisor Dr. S. Pispas, University of Athens, Chemistry Dept. (2008).

2. “Amphiphilic block copolymers: Synthesis and self-assembly in aqueous solutions”,  
E. Kaditi, supervisor Dr. S. Pispas, University of Athens, Chemistry Department (2008).

### **c. Honors theses-**

1. “Development and testing of a measuring platform for NiO micro-sensors for hydrogen sensing”,  
M. Andoniadou, supervisor M. Kompitsas, National Technical University of Athens, Department of Chemical Engineering (2008).

2. “Studies on the encapsulation of hydrophobic drugs into amphiphilic block copolymer micelles”,  
E. Farfarelos, supervisor Dr. S. Pispas, National Technical University of Athens, Department of Chemical Engineering (2008).

3. “On the problem of laser light diffraction in polymeric materials and proteins”,  
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4. “Functional testing of photonic sensors”,  
E. Agapitos, supervisor N. Vainos, Dept. of Materials Science, University of Patras (2008).

<b>5. Publications in Technical Journals / Miscellaneous Publications</b>
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1. “Impressions and conclusions from the 4<sup>th</sup> Chemistry Olympiad”,  
G.A. Mousdis and X. Vamvakeros,  
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2. “New laser technique for controlled doping of external impurities in thin films”,  
M. Kompitsas,

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1. “The fundamental gap in reduced density matrix functional theory”,  
N.N. Lathiotakis\*, S. Sharma, N. Helbig, J.K. Dewhurst and E.K.U. Gross,  
XXII Panhellenic Solid State and Materials Science Conference, Heraklion, Crete, September  
22-26, 2008 (invited talk).
2. “Tailoring ferromagnetism in ZnO via codoping”,  
N.N. Lathiotakis\*, A.N. Andriotis and M. Menon,  
2<sup>nd</sup> Int’l. Symposium on Transparent Conducting Oxides, Crete, October 24-25, 2008 (oral).
3. “Coherently controlled adiabatic passage between clusters of degenerate quantum states”,  
I. Thanopoulos,  
Latsis-Symposium "Intramolecular dynamics, symmetry and spectroscopy", ETH, Zurich,  
Switzerland, September 6-10, 2008 (invited talk).
4. “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,  
International Conference on Computational Methods in Science and Engineering (2008),  
Hersonissos, Crete, Greece, September 25-30, 2008 (invited talk).
5. “Investigation of the reaction between aluminum clusters and methane”,  
E. Alexandrou\*, H.M. Polatoglou and N.C. Bacalis,  
International Conference on Computational Methods in Science and Engineering (2008),  
Hersonissos, Crete, Greece, September 25-30, 2008 (oral presentation).
6. “Statistical physics of DNA breathing, melting and unzipping”,  
N. Theodorakopoulos,  
Greek-Turkish Conference on Statistical Physics and Dynamical Systems,  
Rhodos / Marmaris, September 11-17, 2008 (invited talk).
7. “Nonlinear optical properties and structural changes of thermally poled borosilicate  
glasses”,  
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8. “Structure of lithium-borosulphate oxynitride thin film amorphous electrolytes”,  
E.I. Kamitsos\*, M. Dussauze, C.P.E. Varsamis, Y. Hamon and P. Vinatier,  
The 6<sup>th</sup> International Conference on Borate Glasses, Crystals and Melts – Borate2008, Himeji,  
Japan, August 18-22, 2008 (oral).

9. “Thermal poling of sodium borosilicate glasses”,  
D. Moencke\*, M. Dussauze, E.I. Kamitsos and D. Ehrtd,  
The 6<sup>th</sup> International Conference on Borate Glasses, Crystals and Melts – Borate2008, Himeji,  
Japan, August 18-22, 2008 (oral).
10. “Thin amorphous electrolytes by infrared spectroscopy”,  
E.I. Kamitsos,  
W.M. Risen Symposium, Chemistry Dept., Brown University, USA, Sept. 20, 2008 (invited  
lecture).
11. “Structural investigation of lead borate glasses by vibrational spectroscopy”,  
N. Makris\*, C.P.E. Varsamis and E.I. Kamitsos,  
XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete,  
Greece, September 21-24, 2008 (oral).
12. “Direct compositional evaluation of palygorskite by near-infrared spectroscopy”,  
G.D. Chryssikos\*, V. Gionis, G.H. Kacandes, M. Suárez, E. García-Romero and M. Sanchez del  
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ALUSIV Conference – Aluminium and Silicon in Soils and the Environment, The Macaulay  
Institute, Aberdeen, Scotland U.K., September 3-5, 2008 (oral).  
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13. “Synchronous fluorescence spectroscopy and classical assays: tools for monitoring olive  
oil stability”,  
K.I. Poulli\*, G.A. Mousdis and C.A. Georgiou,  
6th Euro Fed Lipid Congress: Oils, Fats and Lipids in the 3rd Millennium: challenges,  
achievements and perspectives, Athens, Greece, September 7-10, 2008 (oral).
14. “Chemical and optical properties of chromophoric dissolved organic matter (CDOM) in  
coastal and open waters of the eastern Mediterranean sea”,  
D. Tsoliakos\*, C. Zeri, M. Tzortziou, G.A. Mousdis and I. Hatzianestis,  
SESAME 1st Scientific Workshop, Palma de Mallorca, Spain, November 18–20, 2008 (poster).
15. “pH-responsive self-assemblies of the amphiphilic block polyelectrolyte polystyrene-  
block-poly((sulfamate-carboxylate)isoprene)”,  
M. Stepanek\*, M. Uchman, K. Prochazka, G. Mountrichas and S. Pispas,  
7<sup>th</sup> International Symposium on Polyelectrolytes (Polyelectrolytes 2008), Coimbra, Portugal, June  
16-19, 2008 (poster).
16. “Diffractive optic nanocomposite sensors”,  
L. Athanasekos\*, M. Vasileiadis, A. Meristoudi, S. Pispas, G. Mousdis, A. Tsigara, V. Karoutsos  
and N.A. Vainos,  
5<sup>th</sup> International Conference on Nanosciences and Nanotechnologies (NN08), Thessaloniki,  
Greece, July 14-16, 2008 (poster).
17. “Self-assembled colloids formed by block copolymers and DNA”,

- M. Talelli, G. Mountrichas and S. Pispas\*,  
48<sup>th</sup> Microsymposium on Macromolecules “Polymer Colloids: From design to biomedical and industrial applications”, Prague, Czech Republic, July 20-24, 2008 (poster).
18. “Self-assembled colloids from block copolymers and vesicle-forming surfactant”,  
S. Pispas,  
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19. “Induced micellization by interaction of double hydrophilic block copolymers with metal compounds”,  
M. Uchman\*, K. Prochazka, K. Gatsouli and S. Pispas,  
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20. “Assembly of functionalized monodispersed CdSe nanoparticles in an orientationally anisotropic liquid-crystalline environment”,  
E. Karatairi\*, G. Basina, G. Nounesis, D. Niarchos, S. Pispas, J. Arvanitidis, D. Christofilos, N. Boukos and V. Tzitzios,  
MNE 2008, Athens, Greece, September 15-18, 2008 (poster).
21. “Hybrid materials photonic sensors”,  
M. Vasileiadis, L. Athanasekos, A. Meristoudi\*, S. Pispas, G.A. Mousdis, A. Tsigara, V. Karoutsos and N.A. Vainos,  
XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, Greece, September 21-24, 2008 (oral).
22. “Block and random copolymers encapsulating metal nanoparticles: Development and non linear optical properties”,  
A. Meristoudi\*, K. Iliopoulos, S. Pispas, N.A. Vainos and S. Couris,  
XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, Greece, September 21-24, 2008 (poster).
23. “Light induced filament formation in transparent polymer solutions”,  
E. Anyfantakis\*, B. Loppinet, C. Mantzaridis, S. Pispas and G. Fytas,  
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24. “Hybrid materials photonic structures microoptics and applications”,  
L. Athanasekos\*, D. Alexandropoulos, M. Vasileiadis, E. Karoutsos, S. Pispas, G.A. Mousdis, A. Meristoudi, A. Botsialas and N.A. Vainos.  
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25. “Self-assembled nanostructures from block copolymers and vesicle-forming surfactant in aqueous solutions”,  
S. Pispas,

- 7<sup>th</sup> Hellenic Polymer Conference, Ioannina, Greece, September 28-October 1, 2008 (oral).
26. “Dynamics of zwitterion terminated polystyrene at a glass-solution interface studied by evanescent wave dynamic light scattering”,  
A. Tsigkri, B. Loppinet\* and S. Pispas,  
7<sup>th</sup> Hellenic Polymer Conference, Ioannina, Greece, September 28-October 1, 2008 (oral).
27. “Effect of lithium salt concentration on the self-assembly of PEO-based block copolymer electrolytes”,  
E.F. Ioannou\*, K.D. Gatsouli, S. Pispas, E.I. Kamitsos and G. Floudas,  
7<sup>th</sup> Hellenic Polymer Conference, Ioannina, Greece, September 28-October 1, 2008 (oral).
28. “ $\beta$ -Lactam functionalized amphiphilic block copolymers from poly(isoprene-b-ethylene oxide) copolymers”,  
E. Kaditi\* and S. Pispas,  
7<sup>th</sup> Hellenic Polymer Conference, Ioannina, Greece, September 28-October 1, 2008 (poster).
29. “Light induced micro-fiber formation in transparent polymer solutions”,  
A. Anyfantakis\*, B. Loppinet, C. Mantzaridis, S. Pispas and G. Fytas,  
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M. Karayianni\*, G. Mountrichas, S. Pispas, G.D. Chryssikos and V. Gionis,  
7<sup>th</sup> Hellenic Polymer Conference, Ioannina, Greece, September 28-October 1, 2008 (poster).
31. “Lithium ion induced nanophase ordering and ion mobility in ionic block copolymers”,  
E.F. Ioannou\*, G. Mountrichas, S. Pispas, E.I. Kamitsos and G. Floudas,  
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32. “Reversible self-assembled nanostructures from block polyampholytes”,  
C. Mantzaridis\* and S. Pispas,  
7<sup>th</sup> Hellenic Polymer Conference, Ioannina, Greece, September 28-October 1, 2008 (poster).
33. “Self-assembly in mixed amphiphilic diblock copolymers-zwitterionic surfactants aqueous solutions”,  
K. Dimitroulopoulos\* and S. Pispas,  
7<sup>th</sup> Hellenic Polymer Conference, Ioannina, Greece, September 28-October 1, 2008 (poster).
34. “Formation of gold nanoparticles in the corona of di- and triblock copolymer micelles”,  
A. Meristoudi\*, S. Pispas and N.A. Vainos,  
7<sup>th</sup> Hellenic Polymer Conference, Ioannina, Greece, September 28-October 1, 2008 (poster).
35. “Structure of amphiphilic polyisoprene-poly(ethylene oxide) block copolymers in very dilute aqueous solution”,  
G. Mountrichas, A. Stocco, S. Pispas, K. Tauer and R. Sigel\*,  
Julich Soft Matter Days 2008, Julich, Germany, November 11-14, 2008 (poster).

36. “High resolution ellipsometric studies on bare fluid interfaces”,  
A. Stocco, K. Tauer, S. Pispas and R. Sigel\*,  
Julich Soft Matter Days 2008, Julich, Germany, November 11-14, 2008 (poster).
37. “Chemical modifications of carbon nanohorns”,  
N. Tagmatarchis,  
24<sup>th</sup> General Fullerenes and Nanotubes Symposium, Nagoya, Japan, April 2-4, 2008 (invited lecture).
38. “Decoration of carbon nanohorns with palladium and platinum nanoparticles”,  
N. Karousis\*, M. Yudasaka, S. Iijima and N. Tagmatarchis,  
ChemOnTubes2008, Zaragoza, Spain, April 6-9, 2008 (poster).
39. “Chemical functionalization of carbon nanohorns”,  
N. Tagmatarchis,  
213<sup>th</sup> Electrochemical Society (ECS) Meeting, Phoenix, Arizona, USA, May 18-23, 2008 (invited lecture).
40. “Porphyrin-pyrene-single walled carbon nanotube and porphyrin-ferrocene-single walled carbon nanotubes triads as efficient intrahybrid electron transfer systems”,  
S. Economopoulos\*, N. Karousis, A. Skondra, A. G. Coutsolelos and N. Tagmatarchis,  
XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, Greece, September 21-24, 2008 (poster).
41. “Alignment of functionalized carbon nanotubes in weak magnetic fields”,  
N. Karousis\*, J. Tumpene, B. Norden and N. Tagmatarchis,  
XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, Greece, September 21-24, 2008 (poster).
42. “Photoelectrochemical solar cells of nanostructured thin films composed of carbon nanohorn-porphyrin (CNH-H<sub>2</sub>P)”,  
G. Pagona\*, T. Hasobe, G. Charalambidis, A. G. Coutsolelos and N. Tagmatarchis,  
XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, Greece, September 21-24, 2008 (poster).
43. “Carbon nanohorn-(terpyridine) copper(II) metallo-nanocomplexes: Photoinduced electron transfer processes for solar energy conversion”,  
G. Rotas\* and N. Tagmatarchis,  
XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, Greece, September 21-24, 2008 (oral).
44. “Self-assembled ferromagnetic and superparamagnetic structures of Fe block copolymers hybrids”,  
E. Sarantopoulou\*, A.C. Cefalas, Z. Kollia, S. Pispas and S. Kobe,  
Women in Nano Winter School, Kranjska Gora, Slovenia, February 7-9, 2008 (invited talk).



45. “Nanocrystallization under electromagnetic fields: A quantum mechanical approach”, A.C. Cefalas\*, E. Sarantopoulou, Z. Kollia, S. Kobe and G. Dražic, 5<sup>th</sup> International Conference on Nanosciences & Nanotechnologies - NN08, Thessaloniki, Greece, July 14-16, 2008 (oral).
46. “Growth of ferromagnetic core-shell Fe-Sm-Ta-N nanospheroids”, E. Sarantopoulou\*, Z. Kollia, A.C. Cefalas, S. Kobe and G. Dražic, 5<sup>th</sup> International Conference on Nanosciences & Nanotechnologies - NN08, Thessaloniki, Greece, July 14-16, 2008 (poster).
47. “TEM study of InN thin films prepared by pulsed laser deposition at 157 nm”, G. Dražic\*, E. Sarantopoulou, Z. Kollia, A.C. Cefalas and S. Kobe, Hot Nano Topics 2008: incorporating SLONANO 2008, 3 overlapping workshops on current hot subjects in nanoscience, Portorož, Slovenia, May 23-30, 2008 (oral).
48. “Optimization of PLD for Fe-Sm-based thin film fabrication using an analytical laser ablation system interfaced with an inductively coupled plasma mass spectrometer”, M. Janeva Azdejkovic, J.T. van Elteren, K. Zuzek Rozman, E. Sarantopoulou, S. Kobe\* and A.C. Cefalas, Hot Nano Topics 2008: incorporating SLONANO 2008, 3 overlapping workshops on current hot subjects in nanoscience, Portorož, Slovenia, May 23-30, 2008 (oral).
49. “Thin metallic and dielectric films on silica nanofibres”, G. Kakarantzas\*, C.G. Poulton and C. Riziotis, 1<sup>st</sup> Mediterranean Conference on Nano-photonics MediNano-1, Istanbul, Turkey, Oct 6-7, 2008 (invited talk).
50. “The potential of quantum dots in high-Q resonator structures for practical applications”, M. Vasileiadis\*, D. Alexandropoulos, M. J. Adams and N.A. Vainos, 5<sup>th</sup> International Conference on Nanosciences & Nanotechnologies - NN08, Thessaloniki, Greece, July 14-16, 2008 (poster).
51. “Photonic methods and materials for remote point sensing”, M. Vasileiadis\*, L. Athanasekos, A. Meristoudi, S. Pispas, G. Mousdis, A. Tsigara, V. Karoutsos and N.A. Vainos, COST Training School (COST ACTION MP0604), Ischia (Naples), Italy, 2008 (oral).
52. “Diffractive optical elements and novel microstructures for photonic applications”, L. Athanasekos\*, M. Vasileiadis, A. Meristoudi, S. Pispas, G. Mousdis, D. Alexandropoulos, V. Karoutsos and N.A. Vainos, COST Training School (COST ACTION MP0604), Ischia (Naples), Italy, 2008 (oral).
53. “The effect of Au nanoclusters in tin oxide film gas sensors”, G.A. Mousdis\*, M. Kompitsas, I. Fasaki, M. Sucheas and G. Kiriakidis, NATO-ASI on “Nanostructured Materials for Advanced Technological Applications”, Sozopol, Bulgaria, June 1-13, 2008 (poster).

54. “Gas sensing properties of ZnO field-effect transistor enhanced by Au nanoparticles”, F.V. Farmakis, K. Alexandrou, C. Tsamis, Th. Speliotis, I. Fasaki, M. Kompitsas\*, S. Kennou, S. Ladas and P. Jedrasik, Conf. Proc. Eurosensors XXII, Dresden, Germany, September 7-10, 2008 (poster).
55. “Hydrogen gas sensing application of Al/NiO Schottky diode”, M. Stamataki, I. Fasaki, Ch. Sargentis, D. Tsamakis\* and M. Kompitsas, IEEE Sensors 2008, Lecce, Italy, October 26-29, 2008 (poster).
56. “Optical properties of NiO and TiO<sub>2</sub> thin films and application on hydrogen sensing”, I. Fasaki\*, A. Rehakova, I. Hotovy, V. Rehacek, M. Kompitsas, F. Roubani-Kalantzopoulou, 2<sup>nd</sup> Int’l. Symposium on Transparent Conducting Oxides, Hersonissos, Crete, October 22-26, 2008 (poster).
57. “ZnO transparent thin films grown by PLD for hydrogen sensing applications”, M. Stamataki\*, G. Tsonos, D. Tsamakis, I. Fasaki and M. Kompitsas, 2<sup>nd</sup> Int’l. Symposium on Transparent Conducting Oxides, Hersonissos, Crete, October 22-26, 2008 (oral).
58. “The effect of Au and Pt nanoclusters on the structural and hydrogen sensing properties of SnO<sub>2</sub> thin films”, I. Fasaki\*, M. Sucheá, G. Mousdis, G. Kiriakidis and M. Kompitsas, 2<sup>nd</sup> Int’l. Symposium on Transparent Conducting Oxides, Hersonissos, Crete, October 22-26, 2008 (poster).
59. “Laser-induced breakdown spectroscopy for on-line sulfur minerals analyses in ambient conditions”, M. Gaft, L. Nagli, I. Fasaki, M. Kompitsas and G. Wilsch\*, 5<sup>th</sup> International Conference on LIBS, Berlin, Germany, September 22-26, 2008 (poster).