

1. Papers in Refereed Journals

1. “Theoretical study of nonadiabatic interactions, radiative lifetimes and predissociation lifetimes of excited states of BH”,
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4. “Light scattering study of well-defined flexible polyelectrolytes with two cationic sites per monomeric unit”,
M. Osa, G. Mountrichas, K. Hong, S. Pispas, P.F. Britt and J.W. Mays,
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6. “Inorganic and hybrid polymer-inorganic nanostructured materials for optical physicochemical sensing applications”,
A. Tsigara, A. Meristoudi, L. Athanasekos, J. Manasis, M. Hands, G. Mousdis, S. Pispas and N.A. Vainos,
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7. “NiO microsensor for H₂ detection”,
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8. “Study of the optical and structural properties of ZnO thin films with Au nanoparticles on top”,
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Proc. 6th National Conference of Chemical Engineering, 31 May–2 June 2007, Athens, pp. 181-184 (in Greek).
9. “Phosphate ore beneficiation via determination of phosphorus-to-silica ratio by laser induced breakdown spectroscopy”,
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10. “Platinum group metals bulk analysis in automobile catalyst recycling material by LIBS”,
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Proc. 6th National Conference of Chemical Engineering, 31 May–2 June 2007, Athens, pp. 637-640 (in Greek).
11. “Growth of ZnO, ZnO+Au and ZnO+Pd thin films by pulsed laser deposition and study of their adsorptive and catalytic properties”,
I. Asteriadis, T. Aggelakopoulou, A. Giannoudakos, I. Bassiotis, M. Kompitsas, N. Katsanos and F. Roubani-Kalantzopoulou,

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3. Dissertations

a. PhD theses

1. “Modelling DNA hairpins”,
J. Errami, supervisors M. Peyrard and N. Theodorakopoulos, ENS-Lyon & Universität Konstanz (2007).
2. “Theoretical calculations on inorganic materials”,
D. Liakos, supervisors E.D. Simandiras and A.T. Tsatsas, University of Athens, Chemistry Department (2007).
3. “Growth and processing of complex nanoscopic structures and study of their properties for photonics applications”,
A. Tsigara, supervisors N.A. Vainos and F. Roubani-Kalantzopoulou, National Technical University of Athens, Department of Chemical Engineering (2007).

b. MSc theses

1. “Application of synchronous fluorescence spectroscopy for maritime pollution research”,
E. Koumoutsou, supervisors G.A. Mousdis and C. Georgiou, Agricultural University of Athens, Division of Chemical and Physical Sciences (2007).

c. Honors theses

1. “Synthesis and study of phthalocyanines”,
D. Antonopoulos, A. Dalmara, supervisors G.A. Mousdis and N. Psaroudakis, University of Athens, Chemistry Department (2007).

4. Miscellaneous Publications

1. “Periplus of Physics. Space-time, mass, energy”,
Popularization of Science DVD,
I.D. Petsalakis (scientific editing and presentation), K. Vrettos (Director),
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5. Conference Presentations

1. “Theoretical study of adsorption of gallium and gallium nitrides on Si(111)”,
D. Tzeli*, I.D. Petsalakis and G. Theodorakopoulos,

Quantum Systems in Chemistry and Physics, Workshop, QSCP XII, Royal Holloway, University of London, U.K., 30/8–5/9/2007 (poster).

2. “The Bethe surface of condensed water”,
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3. “Quantum and classical dynamics of a diatomic molecule in laser fields in the region producing maximum dissociation”,
K. Dimitrioui, V. Constandoudis, Th. Mercouris, Y. Komninos and C.A. Nicolaides,
Conference on the Quantum Atomic and Molecular Physics, 10-13 September 2007, London, UK (poster).

4. “Mesoscopic modeling of DNA: The statistical physics of melting, unzipping and hairpin formation”,
N. Theodorakopoulos,
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5. “Functional nanostructured materials and applications”,
E.I. Kamitsos,
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6. “Glass structure by vibrational spectroscopy: Structure of glass thin films by infrared techniques”,
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7. “Non linear properties of mixed cation glasses”,
C.P.E. Varsamis,
20th Summer School in non-linear science and complexity, Patras, Greece, July 19-29, 2007 (oral).

8. “Quantitation of virgin olive oil adulteration through synchronous fluorescence spectroscopy”,
K. I. Poulli*, G.A. Mousdis and C.A. Georgiou,
2nd Greek Conference, “Fats, oils and lipids: present and future”, Greek Lipid Forum, Athens 7-8 June 2007 (oral).

9. “Synchronous fluorescence: tool for virgin olive oil adulteration assessment”,
K.I. Poulli*, G.A. Mousdis and C.A. Georgiou,
2nd Greek Conference of Biotechnology and Food Technology, Athens, 29-31 March 2007 (oral).

10. “Study of the intercalation of methylamine pyrene in layered materials”,
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11. “How to modify properties of low dimensional organic conductors? Spectral Investigations”,
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O. Ito*, A. Sandanayaka, Y. Araki, M. Yudasaka, S. Iijima and N. Tagmatarchis,
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15. “Non-adiabatic lattice dynamics and Raman spectra of metallic nanotubes”,
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16. “Chemical functionalization of carbon nanohorns”,
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17. “Regioselective triphenylamine-directed synthesis of C₆₀ bis-adducts”,
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18. “Hybrid materials based on polymers and carbon nanostructures”,
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19. “Self-assembly of palladium nanoparticles onto carbon nanotubes and their catalytic activity in hydrogenation reactions”,
N. Karousis*, G.-E. Tsotsou, N. Ragoussis and N. Tagmatarchis,
2nd Greek Organic Chemistry Workshop, Athens, Greece, April 19-21, 2007 (poster).

20. “Methodologies for the functionalization of carbon nanohorns”,
G. Pagona* and N. Tagmatarchis,
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21. “Triphenylamine-based fullerene derivatives”,
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22. “Polymers and carbon-based nanostructures: Advanced hybrid materials for nanotechnological applications”,
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N. Tagmatarchis,
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25. “Functionalization of carbon nanohorns with polyethylene oxide”,
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G. Rotas* and N. Tagmatarchis,
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28. “Resonant processes and Coulomb interactions in $(C_{59}N)_2$ ”,
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29. “Carbon nanohorns-terpyridineCu^{II} nanocomplexes”,
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30. “Water soluble functionalized carbon nanotubes as drug delivery systems”,
N. Karousis*, K. Kostarelos and N. Tagmatarchis,
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34. “Oxidation and reactivity of heterofullerenes”,
C. Ewels*, H. El Cheikh, I. Suarez-Martinez, D. Arcon, N. Tagmatarchis, G. van Lier, M.
Pregelj, P. Cevc, G. Rotas, G. Pagona and P. Geerlings,
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36. “Advanced hybrid materials of carbon nanostructures and polymers”,
G. Mountrichas*, N. Tagmatarchis and S. Pispas,
International Conference on Structural Analysis of Advanced Materials (ICSAM-2007), Patras,
Greece, September 2-6, 2007 (oral).
37. “Polymer based hybrid materials: Synthesis and applications of materials containing
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38. “Solubilization of carbon nanostructures in organic and aqueous media by decoration
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G. Mountrichas*, S. Pispas and N. Tagmatarchis,

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39. “Covalent and non-covalent functionalization of carbon nanotubes and carbon nanohorns with polymers”,

G. Mountrichas*, N. Tagmatarchis and S. Pispas,

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40. “Carbon nanotubes for biotechnological applications”,

N. Tagmatarchis,

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41. “Carbon nanohorn-ferrocene hybrids: Synthesis, characterization and photoelectron properties for applications in energy conversion schemes”,

G. Pagona*, S. Sotiropoulou, C.A. Batt, A. Maigne, M. Yudasaka, S. Iijima and N. Tagmatarchis, Materials Research Society (MRS), Boston, USA, November 26-30, 2007 (poster).

42. “Thermogravimetric analysis for the characterization of hybrid materials based on polymers and carbon nanostructures”,

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43. “Polymer based hybrid materials for photonic sensors”,

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44. “Poly(isoprene-b-ethylene oxide) block copolymer micelles as nanocarriers for poorly water soluble drugs”,

T. S. Levchenko, G. Mountrichas, V.P. Torchilin and S. Pispas*,

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45. “Giant compound block copolymer micelles encapsulating Au nanoparticles”,

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46. “Solution properties of novel double hydrophilic block copolymers based on poly(p-hydroxystyrene) derivatives and poly(ethylene oxide)”,

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S. Pispas,
20th International Symposium on Polymer Analysis and Characterization (ISPAC 2007), Agios Nikolaos, Crete, Greece; September 30-October 3, 2007 (poster).
48. “Nonlinear optical properties of Au nanoclusters encapsulated into hybrid block copolymer micelles”,
K. Iliopoulos*, D. Athanasiou, S. Couris, A. Meristoudi, N. Vainos and S. Pispas,
3rd International Conference on Micro-Nanoelectronics, Nanotechnology & MEMS (Micro&Nano 2007), Athens, Greece; November 18-21, 2007 (oral).
49. “The influence of the macromolecular architecture on the micellization in block copolymer/homopolymer blends”,
E. Pavlopoulou*, K. Chrissopoulou, S. H. Anastasiadis, G. Portale, H. Iatrou, S. Pispas and N. Hadjichristidis,
XXIII Hellenic Conference on Solid State Physics and Materials Science, Athens, Greece; September 23-26, 2007 (oral).
50. “Viscoelastic response of micelles with chemically cross-linked cores”,
A. Pamvouxoglou*, E. Van Ruymbeke, G. Petekidis, D. Vlassopoulos, G. Mountrichas and S. Pispas,
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51. “Hybrid materials from giant block copolymer micelles encapsulating gold nanoparticles”,
C. Mantzaridis* and S. Pispas,
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52. “Nonlinear optical response of hybrid block copolymer micelles encapsulating metal nanoparticles”,
A. Meristoudi*, S. Pispas, N. Vainos, K. Iliopoulos and S. Couris,
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53. “Qualitative and quantitative analysis of aramide fibers using thermal analysis and vibrational spectroscopy”,
G. Mountrichas, M. Talelli, G. D. Chryssikos, V. Gionis, C. Eforakopoulou and S. Pispas*,
3rd Hellenic Conference on Thermal Analysis, Athens, Greece; December 7-9, 2007 (poster).
54. “Nonlinear optical response of hybrid block copolymer micelles encapsulating metal nanoparticles”,
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57. "Self-assembly of multifunctional block polyelectrolytes in aqueous solutions",
M. Uchman*, M. Stepanek, K. Prochazka, M. Spirkova, M. Urbanova, G. Mountrichas and S. Pispas,
European Polymer Congress, EPF 2007, Portoroz, Slovenia; July 1-6, 2007 (poster).
58. “Novel multifunction block polyelectrolytes in aqueous solutions and on surface”,
M. Uchman*, M. Stepanek, K. Prochazka, M. Spirkova, M. Urbanova, G. Mountrichas and S. Pispas,
21st Conference of the European Colloid and Interface Society, ECIS 2007, Geneva, Switzerland; September 10-14, 2007 (poster).
59. “Multifunctional polyelectrolyte triblock copolymers in aqueous solution and CdS quantum dots templated on copolymer nanoparticles”,
M. Uchman*, K. Prochazka, G. Mountrichas and S. Pispas,
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(2007 Pacific Polymer Federation Young Scientist Poster Award).
60. “Rheological properties of stable responsive block copolymer micelles”,
E. Van Ruymbeke*, A. Pamvouksoglou, D. Vlassopoulos, G. Petekidis, G. Mountrichas and S. Pispas,
The Society of Rheology 79th Annual Meeting, Salt Lake City, USA; Oct. 7-11, 2007 (oral).
61. “Polymeric micelles made of poly(isoprene-block-ethylene oxide) block copolymer for solubilization of poorly soluble drugs”,
T. S. Levchenko*, S. Pispas and V. P. Torchilin,
34th Annual Meeting of the Controlled Release Society, Long Beach, California, USA; July 7-11, 2007 (poster).
62. “Amphiphilic block copolymers at the liquid-fluid interface: Dynamics in different regimes”,
A. Stocco*, S. Pispas and R. Sigel,
Spring Meeting of the German Physical Society, Regensburg, Germany; March 26-30, 2007 (oral).
63. “Laser grown photonic structures”,

N. Vainos,
International Workshop on “Optical micro-manipulation by nonlinear nanophotonics”
COST MP0604, Ancona, Italy, 26-27 October 2007 (oral).

64. “Micro/Nano self-assembled structures of block copolymer / samarium iron hybrid materials induced by VUV light.”

E. Sarantopoulou, K. Gatsouli, Z. Kollia, S. Pispas, S. Kobe, A.C. Cefalas*,
8th International Symposium on Laser Precision Microfabrication, Vienna Austria, 24-28 April 2007 (poster).

65. “Growth of bi-phase crystalline/amorphous Sm-Fe-Ta-N magnetic nano-droplets fabricated by PLD.”

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66. “Nano-engineering of bio-arrays with vacuum ultraviolet light”,

E. Sarantopoulou*, Z. Kollia, A.C. Cefalas, A.M. Douvas, M. Chatzichristidi, P. Argitis, K. Misiakos, Z. Petrou. S. Kakabakos,
EMRS 2007, Strasbourg France, May 28 - June 1 2007 (poster).

67. “Nano mapping of rare earth ion concentration in wide band gap dielectric crystals with transmission electron microscopy”,

G. Drazic, S. Kobe, A.C. Cefalas, E. Sarantopoulou*, Z. Kollia,
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68. “Preparing ulocladium cultures for studies in microgravity conditions”,

I. Gomoiu*, E. Sarantopoulou, Z. Kollia,
ELGRA Biennial Symposium and General Assembly, Bulletin of the European Low Gravity Research Association Florence Italy, Number 25, 4th-7th September 2007 (oral).

69. “Nanocrystalization of Sm-Fe-Ta-N composites inside magnetic nanodroplets from fast cooling on tantalum surface”,

E. Sarantopoulou, J. Kovač, M. Janeva, Z. Kollia, S. Kobe, G. Dražić, A.C. Cefalas*,
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70. “VUV laser circular microstructured surface relief gratings induced on PTFEMA surface”,

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3rd International Conference Micro&Nano2007, Athens Greece, 18 – 21 Nov. 2007 (poster).

71. “Will quantum parametric amplification solve the problem of scaling of flow engineering surfaces?”,

E. Sarantopoulou*, A.C. Cefalas, Z. Kollia,
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72. “Effect of external magnetic field on nano-crystallization of solutes on flow surface.”
A.C. Cefalas*, S. Kobe, G. Dražić, E. Sarantopoulou, Z. Kollia, J. Strazisar, A. Meden,
12th European Conference on Application of Surface and Interface Analysis, Brussels Belgium,
9-14 September 2007 (poster).
73. “Surface relief nano-micro structures from Rayleigh’s instabilities in block copolymers.”
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74. “Modification of sensing properties of thin polymeric films by VUV irradiation”,
E. Sarantopoulou, Z. Kollia, K. Manoli, M. Sanopoulou, D. Goustouridis, S. Chatzandroulis and
I. Raptis*,
14th International Conference on Solid State Sensors, Lyon, France, June 10-14, 2007 (poster).
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I. Fasaki*, M. Andoniadou, A. Giannoudakos, M. Stamataki, M. Kompitsas and F. Roubani-
Kalantzopoulou,
NATO-ASI on “Functionalized Nanoscale Materials Devices and Systems for chem-bio Sensors,
Photonics and Energy Generation and Storage, June 4-15 2007, Sinaia, Romania (poster).
76. “Field effect transistor with a ZnO thin film as active medium for gas sensing
applications”,
F. Farmakis*, A. Speliotis, K.P. Alexandrou, Ch. Tsamis, M. Kompitsas and I. Fasaki,
23th Solid State Physics and Materials Science Conference, 23-26 Sept. 2007, “Demokritos”,
Athens (oral).
77. “Time-resolved measurements on ionic Stark broadening and shifting of a NIR bromine
line in a laser-induced plasma”,
G. Asimellis*, I. Fasaki, A. Giannoudakos and M. Kompitsas,
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F. Farmakis, T. Speliotis, K.P. Alexandrou, C. Tsamis, M. Kompitsas, I. Fasaki, P. Jedrasic, G.
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33rd Int. Conference on Micro- and Nano-Engineering, 23-26 Sept. 2007, Copenhagen, Denmark
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