

1. Papers in Refereed Journals

1. “Coherent oscillatory femtosecond dynamics in multichannel photodynamics of NO₂ studied by spatially masked electron imaging”,
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2. “*trans*-pyridyl and naphthyridyl cinnamides as alternatives for urea in complexation of carboxylic acid and formation of water-templated assemblies in the solid state”,
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3. “Theoretical investigation on the effect of protonation on the absorption and emission spectra of two amine-group-bearing, red “push-pull” emitters, 4-dimethylamino- 4'-nitrostilbene and 4-(dicyanomethylene)-2-methyl-6-p-(dimethyl-amino) styryl-4H-pyran, by DFT and TDDFT calculations”,
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4. “Size consistency of explicit functionals of the natural orbitals in reduced density matrix functional theory”,
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8. “Accurate ab initio calculations of the ground states of FeC, FeC⁺, and FeC⁻”,
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9. “Mind the basis set superposition error”,
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[DOI: 10.1016/j.cplett.2010.07.053](https://doi.org/10.1016/j.cplett.2010.07.053)
10. “Experimental and theoretical study of the reaction of POCl₃⁻ with O₂”,
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L. Athanasekos, M. Vasileiadis, A. Tsigara, E. Kaminska, A. Piotrowska, D. Alexandropoulos,
M. Sigalas, and N.A. Vainos,
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69. “Bending loss and thermo-optic effect of a hybrid PDMS/silica photonic crystal fiber”,
C. Markos, K. Vlachos, and G. Kakarantzas,
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<h2>2. Papers in Proceedings of International and National Conferences</h2>

1. “Development and nonlinear optical properties of block copolymers micelles encapsulating metal nanoparticles”,
A. Meristoudi, K. Iliopoulos, S. Pispas, N. Vainos, and S. Couris,
Proceeding of the ICO Topical Meeting on ‘Emerging Trends and Novel Materials in Photonics’,
7-9 October 2009, Delphi, Greece; N.A. Vainos et al Eds., ISBN: 978-0-7354-0843-2.
[AIP Conf. Proc. vol. 1288, pp. 35-38 \(2010\).](#)
2. “Polydiene solutions: A surprising versatile non linear optics material”,
M. Anyfantakis, B. Loppinet, G. Fytas, C. Mantzaridis, S. Pispas, and H.-J. Butt,
Proceeding of the ICO Topical Meeting on ‘Emerging Trends and Novel Materials in Photonics’,
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[AIP Conf. Proc. vol. 1288, pp. 123-126 \(2010\).](#)
3. “Nonlinear optical properties of Au and Ag nanoparticles embedded into hybrid-block copolymer micelles”,
G. Chatzikyriakos, K. Iliopoulos, S. Couris, A. Meristoudi, and S. Pispas,
Proceeding of the ICO Topical Meeting on ‘Emerging Trends and Novel Materials in Photonics’,
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4. “NLO properties of a new Au-dithiolene complex”,
G. Chatzikyriakos, P. Aloukos, S. Couris, G.C. Anyfantis, and G.C. Papavassiliou,
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5. “The compound oxides based on TiO₂ and NiO thin films for low temperature gas detection”,
I. Kosc, I. Hotovy, M. Kompitsas, R. Grieseler, M. Wilke, V. Rehacek, M. Predanocy, T. Kups,
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6. “Optical sensor sensitivity enhancement by use of diffraction gratings”,
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7. “Emerging trends and novel materials in photonics: Editorial”,
N.A. Vainos, and S. Couris, S. Pissadakis, I. Koutselas, E. Paspalakis,
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3. Book Chapters

1. “Second-order nonlinear optical properties induced by thermal poling in photonic oxide glasses and transparent glass-ceramics”,
E. Fargin, T. Cardinal, A. Malakho, M. Dussauze, E.I. Kamitsos, V. Rodriguez, M. Couzi, F. Adamietz, L. Canioni, B. Bousquet, P. Thomas, and S.G. Murugan,

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2. “Current developments in double hydrophilic block copolymers”,
G. Mountrichas and S. Pispas,
Polymer aging, stabilizers and amphiphilic block copolymers, L. Segewicz and M. Petrowsky (Eds.). Nova Scientific Publishers, Inc.; 2010, pp. 291-326. ISBN: 978-1-60692-928-5.

3. “Metal nanoparticle synthesis in block copolymer self-assembled nanostructures”,
A. Meristoudi, G. Mountrichas, and S. Pispas,
Encyclopedia of Nanoscience and Nanotechnology, H.S. Nalwa (Ed.). American Scientific Publishers; 2010.

4. Patents

1. “Solutions of carbon nanohorns, method for making same and uses thereof”,
D. Voiry, G. Pagona, N. Tagmatarchis, and A. Penicaud,
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5. Dissertations

a. PhD theses

1. “Structure and dynamics of amorphous materials”,
E. Ioannou,
Supervisors Drs. E.I. Kamitsos and S. Pispas, U. of Athens, Chemistry Department (2010).

2. “Synthesis, characterization and study of the properties of transition metal complexes with substitutes that contain sulphur atoms”,
G. Sorras,
Supervisors Drs. G.A. Mousdis and N. Psaroudakis, U. of Athens, Chemistry Department (2010).

3. “Reversible microstructures from polymeric systems for photonic applications”,
C. Mantzaridis,
Supervisors Dr. S. Pispas and Prof. G. Fytas, University of Crete, Department of Materials Science and Technology (2010).

4. “Development and properties of Ohmic contacts for electronic devices”,
M. Tsoutsouva,
Supervisors Dr. M. Kompitsas and Prof. Ch. Panagopoulos, National Technical University of Athens, School of Mining and Metallurgical Engineering (2010).

b. MSc theses

1. “Determination of the layer charge and the layer charge distribution of reduced-charge smectites”,
E. Scoubris,
Supervisors Drs. G.D. Chryssikos, V. Gionis, and Prof. G. Christidis, Technical University of Crete, Department of Mineral Resources Engineering, (2010).

c. Honors theses

1. “Synthesis of new dithiolene complexes”
A. Dimou,
Supervisors Drs. G.A. Mousdis and N. Psaroudakis, U. of Athens, Chemistry Department (2010).
2. “Laser micromachining of Mo thin films for photovoltaic applications”,
P. Koralli,
Supervisors Dr. M. Kompitsas and Prof. D. Manolakos, National Technical University of Athens, School of Mechanical Engineering (2010).
3. “Structural characterization of palygorskite by mid-infrared spectroscopy”,
E. Alexakis,
Supervisors Drs. G.D. Chryssikos and V. Gionis, National Technical University of Athens, School of Applied Mathematical and Physical Sciences (2010).

6. Publications in Technical Journals / Miscellaneous Publications

1. “Parallel implementation of the reduced density matrix functional theory for the development of new functionals”,
N.N. Lathiotakis, M.A.L. Marques,
Science and Supercomputing in Europe, HPC-Europa2, April 2010, ISBN 978-88-86037-23-5.

7. Conference Presentations

1. “Theoretical investigations on photoinduced electron transfer (PET) and excited-state intramolecular proton transfer (ESIPT) in chemical sensors of nerve gas agents”,
I.D. Petsalakis* and G. Theodorakopoulos,
Molecular Sensors and Molecular Logic Gates (MSMLG 2010), Antalya, Turkey; Oct. 22-24 2010 (oral).
2. “Theoretical study on triphenylamine-based sensors of dicarboxylic acids”,
G. Theodorakopoulos* and I.D. Petsalakis,

Molecular Sensors and Molecular Logic Gates (MSMLG 2010), Antalya, Turkey; Oct. 22-24 2010 (poster).

3. “Approximating electronic correlations with reduced density matrix functional”,
N.N. Lathiotakis,
International Meeting on Atomic and Molecular Physics and Chemistry, Madrid, Spain; June 29 -July 2, 2010 (invited talk).

4. “Size consistency of explicit functionals of the natural orbitals in reduced density matrix functional theory”,
N.N. Lathiotakis*, N. I. Gidopoulos, and N. Helbig,
 Ψ_k -2010 Conference, Berlin, Germany; Sept. 12-16, 2010 (poster).

5. “Optical absorption signatures of N and B doped carbon fullerenes: a time dependent DFT study”,
N.N. Lathiotakis*, G. Theodorakopoulos, and I. D. Petsalakis,
Fullerene Silver Anniversary Symposium (FSAS 2010), Hersonissos, Crete, Greece; Oct. 4–10, 2010 (poster).

6. “Intramolecular energy transfer in 24-mode pyrazine by partitioning technique: A time-dependent perspective”,
I. Thanopoulos*, P. Brumer, and M. Shapiro,
Control of Quantum Dynamics of Atoms, Molecules and Ensembles by Light (CAMEL), Varna, Bulgaria; June 28, - July 3, 2010 (invited talk).

7. “Intramolecular energy transfer in 24-mode pyrazine by partitioning technique: A time-dependent perspective”,
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8. “Enhancement of ultraviolet photoinduced energy transfer near plasmonic nanostructures”,
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9. “Photoinduced charge transfer in heterofullerene-donor hybrids”,
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11. “Theoretical investigation of the complexation of crown ethers and crown ethers of fulleropyrrolidine with $(\text{CH}_3)_x\text{NH}^{4-x}$, $x = 0-4$ ”,
D. Tzeli*, I. D. Petsalakis, and G. Theodorakopoulos,
15th International Workshop of Quantum Systems in Chemistry and Physics (QSCP-XV),
Cambridge, UK; Aug 31 – Sep 5, 2010 (poster).
12. “Theoretical study of the spectrum of complexes of fullerene crown ethers with π -extended TTF derivatives”,
D. Tzeli*, I. D. Petsalakis and G. Theodorakopoulos,
Fullerene Silver Anniversary Symposium (FSAS 2010), Hersonissos, Crete, Greece; Oct. 4–10,
2010 (poster).
13. “Photoinduced charge transfer in molecular sensors of nerve gas agents”,
I. S. K. Kerkines*, I. D. Petsalakis, and G. Theodorakopoulos,
15th International Workshop of Quantum Systems in Chemistry and Physics (QSCP-XV),
Cambridge, UK; Aug 31 – Sep 5, 2010 (invited talk).
14. “Theoretical study of azafullerene encapsulation in single-walled carbon nanotubes: n -type or p -type systems?”,
I. S. K. Kerkines*, I. D. Petsalakis, G. Theodorakopoulos, and N. Tagmatarchis,
Fullerene Silver Anniversary Symposium (FSAS 2010), Hersonissos, Crete, Greece; Oct. 4–10,
2010 (poster).
15. “Melting of genomic DNA sequences: predictive modeling by nonlinear lattice dynamics”,
N. Theodorakopoulos,
Coarse-Grain Mechanics of DNA: Bases to Chromosomes, CECAM workshop, Lyon (France),
June 1-4, 2010 (invited talk).
16. “Thermal poling-induced structural rearrangements in oxide glasses”,
E.I. Kamitsos*, M. Dussauze, and V. Rodriguez,
11th International Conference on the Structure of Non-crystalline Materials (NCM11); Paris,
France, June 27-July 2, 2010 (oral).
17. “Coordination and bonding of Mn^{2+} ions in fluoride-phosphate and borosilicate glasses probed by EPR and fluorescence spectroscopy”,
D. Möncke*, D. Ehrt, M. Friedrich, A. Herrmann, and E.I. Kamitsos,
11th International Conference on the Structure of Non-crystalline Materials (NCM11); Paris,
France, June 27-July 2, 2010 (oral).
18. “Effect of synthesis method on the structure and properties of fast ion conducting glasses”,
I. Konidakis*, C.P.E. Varsamis, and E.I. Kamitsos
11th International Conference on the Structure of Non-crystalline Materials (NCM11); Paris,
France, June 27-July 2, 2010 (poster).

19. “Conduction and polarization properties of lithium borate glasses. A combination of ac permittivity and thermally stimulated current measurements”,
F. Henn*, S. Devautour-Vinot, L. Gourrier, C.P.E. Varsamis, and E.I. Kamitsos,
International Conference on Solid Dielectrics; Potsdam, Germany, July 4-9, 2010 (poster).

20. “Thermal poling-induced proton injection in germanate glasses. Raman scattering characterization of new amorphous phases”,
G. Guimbretière*, E.I. Kamitsos, and D. Bégué,
XXII International Congress on Glass; Salvador, Brazil, 15-19 Sept. 2010 (oral).

21. “Thermally poled glasses with non-linear optical properties”,
E.I. Kamitsos,
XXVI Panhellenic Conference on Solid State Physics & Materials Science; Ioannina, Greece, September 26-29, 2010 (invited talk).

22. “Solution organization and non-linear optical properties of chromophore-containing copolymer/metal nanoparticles hybrid systems”,
G. Mountrichas*, D. Palles, S. Pispas, and E.I. Kamitsos,
Fourth Int’l Conference on Micro-Nanoelectronics, Nanotechnology and MEMs (Micro-Nano 2010); Athens, Greece, December 12-15, 2010 (poster).

23. “Evolution of hyperpolarizability β of PMEOMDR1 copolymers using the hyper Rayleigh scattering technique”,
A. Meristoudi*, M. Dussauze, S. Pispas, V. Rodriguez, and E.I. Kamitsos,
Fourth Int’l Conference on Micro-Nanoelectronics, Nanotechnology and MEMs (Micro-Nano 2010); Athens, Greece, December 12-15, 2010 (poster).

24. “Amorphous materials with non-linear optical properties”,
G. Mountrichas*, M. Dussauze, G. Guimbretiere, D. Moenke, A. Meristoudi, V. Rodriguez, E. Fargin, T. Cardinal, S. Pispas, and E.I. Kamitsos,
Euroscience Open Forum 2010, ESOF 2010; Torino, Italy, July 2-7, 2010 (poster).

25. “Carbon nanotube-based hybrid materials for medicinal applications”,
N. Tagmatarchis,
3rd Swedish-Hellenic Life Science Research Conference; Athens, Greece, March 25-26, 2010 (invited talk).

26. “Multifunctional carbon-based nanostructured materials: Fullerenes, azafullerenes, nanotubes, nanohorns, peapods and graphene”,
N. Karousis*, G. Rotas, S.P. Economopoulos, G. Pagona, and N. Tagmatarchis,
NanoTP; Berlin, Germany, March 18-20, 2010 (poster).

27. “Carbon nanohorn-extended tetrathiafulvalene hybrid material”,
G. Rotas*, N. Tagmatarchis, and N. Martin,
ChemOnTubes; Arcachon, France, April 11-15, 2010 (poster).

28. “Porphyrin counter anion in imidazolium modified graphene”,
N. Tagmatarchis,
217th ECS Meeting; Vancouver, Canada, April 25-30, 2010 (invited talk).
29. “Host-guest interactions in azafullerene (C₅₉N)-single-wall carbon nanotube peapod hybrid structures”,
Y. Iizumi*, T. Okazaki, Z. Liu, K. Suenaga, T. Nakanishi, S. Iijima, G. Rotas, and N. Tagmatarchis,
217th ECS Meeting; Vancouver, Canada, April 25-30, 2010 (poster).
30. “Palladium and platinum decorated carbon nanotubes and nanohorns. Preparation, characterization and catalytic activity”
N. Tagmatarchis
39th General Fullerenes and Nanotubes Symposium, Kyoto, Japan, September 5-7, 2010 (oral).
31. “Efficient exfoliation and covalent functionalization of graphene”,
S.P. Economopoulos*, N. Karousis, G. Rotas, and N. Tagmatarchis,
5th IUPAC-Sponsored International Symposium on Macro- and Supramolecular Architectures and Materials MAM-10; Ocho Rios, Jamaica, August 15-20, 2010 (oral).
32. “Synthesis of novel porphyrin dimers for photovoltaic applications”,
A.G. Coutsolelos*, G.E. Zervaki, G. Pagona, G. Charalambidis, K. Ladomenou, and N. Tagmatarchis,
25th European Photovoltaic Solar Energy Conference, Valencia, Spain, Sept. 6-10, 2010 (poster).
33. “Synthesis, characterization and photophysical properties of a carbon nanohorn – coumarin hybrid material”,
G. Pagona*, H.E. Katerinopoulos, and N. Tagmatarchis,
Fullerene Silver Anniversary Symposium (FSAS-2010), Crete, Greece, Oct. 4-10, 2010 (poster).
34. “Molecular recognition of La@C₈₂ endohedral metallofullerene by an isophthaloyl bridged porphyrin dimer”,
G. Pagona*, Y. Miyata, H. Shinohara, and N. Tagmatarchis,
Fullerene Silver Anniversary Symposium (FSAS-2010), Crete, Greece, Oct. 4-10, 2010 (poster).
35. “Removing the outer shells of double-walled carbon nanotubes”,
N. Karousis*, K. Kobayashi, H. Shinohara, and N. Tagmatarchis,
Fullerene Silver Anniversary Symposium (FSAS-2010), Crete, Greece, Oct. 4-10, 2010 (poster).
36. “Graphene oxide – porphyrin antennae: Synthesis, Characterization and Photophysical Properties”,
N. Karousis*, T. Hasobe, and N. Tagmatarchis,
Fullerene Silver Anniversary Symposium (FSAS-2010), Crete, Greece, Oct. 4-10, 2010 (poster).

37. “Functionalization of C₆₀@SWNTs peapods by microwave irradiation”,
N. Karousis*, S.P. Economopoulos, Y. Iizumi, T. Okazaki, Z. Liu, K. Suenaga, and N.
Tagmatarchis,
Fullerene Silver Anniversary Symposium (FSAS-2010), Crete, Greece, Oct. 4-10, 2010 (poster).
38. “Azafullerene-extended tetrathiafulvalene dyad: Synthesis, characterization and
properties”,
G. Rotas* and N. Tagmatarchis,
Fullerene Silver Anniversary Symposium (FSAS-2010), Crete, Greece, Oct. 4-10, 2010 (poster).
39. “Synthesis, characterization and non-linear optical properties of C₆₀ – triphenylamine
hybrids”,
G. Rotas* and N. Tagmatarchis,
Fullerene Silver Anniversary Symposium (FSAS-2010), Crete, Greece, Oct. 4-10, 2010 (poster).
40. “Microwave-assisted functionalization of exfoliated graphene”,
S.P. Economopoulos* and N. Tagmatarchis,
Fullerene Silver Anniversary Symposium (FSAS-2010), Crete, Greece, Oct. 4-10, 2010 (poster).
41. “Covalent functionalization of carbon nanohorns employing microwave-assisted
chemistry”,
S.P. Economopoulos* and N. Tagmatarchis,
Fullerene Silver Anniversary Symposium (FSAS-2010), Crete, Greece, Oct. 4-10, 2010 (poster).
42. “Functionalized graphene through the use of microwave-assisted chemistry”,
S.P. Economopoulos* and N. Tagmatarchis,
4th International Conference on Micro- Nanoelectronics, Nanotechnology and MEMS, Athens,
Greece, December 12-15, 2010 (oral).
43. “Optical and electrophysical properties of sulfur containing metal free phthalocyanine”,
A.V. Kukhta*, E.E. Kolesnik, I.N. Kukhta, A.E. Pochtenny, V.K. Dolgiy, G.A. Mousdis, and N.
Psaroudakis,
International Conference on Molecular Electronics, Grenoble, France, Dec. 6-10, 2010 (poster).
44. “Strong photoluminescence from thin deposits of organic-inorganic hybrid compounds
based on metal-halide units”,
G.C. Papavassiliou*, G.A. Mousdis, and G.C. Anyfantis,
XIVth International Symposium on Luminescence Spectrometry (ISLS 2010), Prague, Czech
Republic, July 13-16 2010, (poster).
45. “Amphiphilic graft copolymers via a combination of conventional and metal-free anionic
polymerization”,
J. Zhao, G. Mountrichas, G. Zhang, and S. Pispas*,
74th Prague Meeting on Macromolecules “Contemporary ways to tailor-made polymers”, Prague,
Czech Republic, July 18-22, 2010 (oral).

46. “Poly[(sulfamate/carboxylate)isoprene-b-2-vinyl pyridine] block polyampholytes: Synthesis and solution self-assembly”,
C. Mantzaridis and S. Pispas*,
74th Prague Meeting on Macromolecules “Contemporary ways to tailor-made polymers”, Prague, Czech Republic, July 18-22, 2010 (poster).
47. “Hydroxyl/ester modified amphiphilic poly(isoprene-b-ethylene oxide) block copolymers”,
E. Kaditi* and S. Pispas,
6th International Conference on Modification, Degradation and Stabilization of Polymers, MODEST 2010, Athens, Greece, September 5-9, 2010 (poster).
48. “Semifluorinated amphiphilic block copolymers from poly(isoprene-b-ethylene oxide) copolymer precursors”,
E. Kaditi*, S. Pispas, K. Hong, and J.W. Mays,
6th International Conference on Modification, Degradation and Stabilization of Polymers, MODEST 2010, Athens, Greece, September 5-9, 2010 (poster).
49. “Thermosensitive amphiphilic brush-like block copolymers of PEO and PPO via a combination of conventional and metal-free anionic polymerization”,
J. Zhao, G. Mountrichas, G. Zhang, and S. Pispas*,
8th Hellenic Polymer Society Symposium, Hersonissos, Crete, Greece, Oct. 24-29, 2010 (poster).
50. “Amphiphilic poly(isoprene-b-ethylene oxide) block copolymers carrying hydroxyl/ester functionalities on the polyisoprene block”,
E. Kaditi and S. Pispas*,
8th Hellenic Polymer Society Symposium, Hersonissos, Crete, Greece, Oct. 24-29, 2010 (poster).
51. “Complexation of lysozyme with sodium (sulfamate/carboxylate)isoprene/styrene/ethylene oxide triblock polyelectrolytes”,
M. Karayianni*, G. Mountrichas, S. Pispas, G.D. Chryssikos, and V. Gionis,
8th Hellenic Polymer Society Symposium, Hersonissos, Crete, Greece, Oct. 24-29, 2010 (poster).
52. “Nonlinear optical patterning of transparent polydiene solutions”,
M. Anyfantakis*, B. Loppinet, G. Fytas, H.-J. Butt, C. Mantzaridis, and S. Pispas,
8th Hellenic Polymer Society Symposium, Hersonissos, Crete, Greece, Oct. 24-29, 2010 (poster).
53. “Influence of macromolecular architecture on the micellization of block copolymers within homopolymer matrices”,
E. Pavlopoulou, K. Chrissopoulou, S.H. Anastasiadis*, G. Portale, W. Bras, H. Iatrou, S. Pispas, and N. Hadjichristidis,
240th ACS National Meeting, Boston, Massachusetts, USA, August 22-26, 2010 (oral).
54. “Properties of transparent p-type Ba-doped SrCu₂O₂ fabricated by PLD”,

M. Kompitsas^{*}, N. Koralli, V. Kambilafka, K. Tsagaraki, M. Modreanu, M. Nolan, and E. Aperathitis,
3th Intern. Symposium on Transparent Conductive Materials (TCM10), Crete, Greece, October 17-21, 2010 (oral).

55. “Efficient hydrogen sensor based on optimized Au-doped NiO thin films by a new PLD technique”,

I. Fasaki, M. Stamataki, A. Lagogiannis, S. Harissopoulos, D. Tsamakias, and M. Kompitsas^{*},
3th Intern. Symposium on Transparent Conductive Materials (TCM10), Crete, Greece, October 17-21, 2010 (oral).

56. “Influence of laser beam focusing on the structural, optical and electrical properties of pulsed laser deposited ZnO films”,

M. Tsoutsouva^{*}, I. Fasaki, Ch. Panagopoulos, D. Papadimitriou, and M. Kompitsas.
3th Intern. Symposium on Transparent Conductive Materials (TCM10), Crete, Greece, October 17-21, 2010 (poster).

57. “Cu_xO-based nanostructured thin films grown by reactive pulsed laser deposition as potential methane sensing elements”,

M. Stamataki, V. Georgiou, D. Tsamakias, and M. Kompitsas^{*},
3th Intern. Symposium on Transparent Conductive Materials (TCM10), Crete, Greece, October 17-21, 2010 (poster).

58. “Influence of Au nanoparticles on ZnO field-effect transistors fabricated by pulsed laser deposition”,

F.V. Farmakis, N. Kelaidis, C. Chatzimanolis-Moustakas, E. Makarona, C. Tsamis^{*}, M. Kompitsas, I. Fasaki, Th. Speliotis, and P. Jedrasik,
E-MRS Spring Meeting 2010, Symposium R: Laser Processing and Diagnostics for Micro- and Nano-applications, Strasbourg, France, June 7-11, 2010 (oral).

59. “The compound oxides based on TiO₂ and NiO Thin Films for low temperature gas detection”,

I. Kosc^{*}, I. Hotovy, M. Kompitsas, R.Grieseler, M. Wilke, V. Rehacek, M. Predanocny, T. Kups, and L. Spiess,
8th International Conference on Advanced Semiconductor Devices and Microsystems (ASDAM), Smolenice, Slovakia, October 25-27, 2010 (poster).

60. “Effect of acid leaching on the structure of palygorskite and sepiolite”,

G.D. Chryssikos, G.H. Kacandes, and V. Gionis^{*},
2010 SEA-CSSJ-CMS Trilateral Meeting on Clays, 2010 TMC, Madrid & Seville, Spain, June 6-11, 2010 (oral).

61. “Synchronous near- & mid infrared investigation of the dehydration of sepiolite”,

V. Gionis, G.H. Kacandes, and G. D. Chryssikos^{*},

2010 SEA-CSSJ-CMS Trilateral Meeting on Clays, 2010 TMC, Madrid & Seville, Spain, June 6-11, 2010 (poster).

62. “Crystal chemistry of kerolite-stevensite mixed layered minerals from the Ural region (Russia)”

V. Krupskaya*, L. Melchakova, M. Vigasina, G.D. Chryssikos, V. Gionis, L. Ogorodova, and I. Kiseleva,

2010 SEA-CSSJ-CMS Trilateral Meeting on Clays, 2010 TMC, Madrid & Seville, Spain, June 6-11, 2010 (poster).

63. “Structure of sepiolite by near- & mid infrared spectroscopy”

V.J. Bukas*, E.T. Stathopoulou, V. Gionis, G.H. Kacandes, and G.D. Chryssikos,

XXVI Panhellenic Conference on Solid State Physics and Materials Science, Ioannina, Greece, September 26-29, 2010 (poster).

64. “Mid- & near-infrared study of synthetic Maya blue pigments”

C. Tsiantos*, V. Gionis, G.H. Kacandes, and G.D. Chryssikos,

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65. “The coherence as an inherent quantum state of nanoscale”

A.C. Cefalas*, E. Sarantopoulou, and Z. Kollia,

Co-nanomet, Modeling and Simulation Techniques for Nanometrology, Sofia, Bulgaria, 29-30 October, 2010 (iInvited talk).

66. “Size and quantum effects in InN nano-domains”

E. Sarantopoulou*, Z. Kollia, and A.C. Cefalas,

Slonano 2010, Ljubljana, Slovenia, 20-22 October, 2010 (invited talk).

67. “Nano -engineering of bio-arrays at 157 nm”

A.C. Cefalas*, E. Sarantopoulou, Z. Kollia, P. Petrou, and S. Kakabakos,

11th Trends in Nanotechnology International Conference, TNT 2010, Braga, Portugal, 06-10 September, 2010 (poster).

68. “Long term oxidization and phase transition of InN epitaxial nanotextures”

E. Sarantopoulou*, Z. Kollia, G. Dražic, and S. Kobe,

11th Trends in Nanotechnology International Conference, TNT 2010, Braga, Portugal, 06-10 September, 2010 (poster).

69. “Hollow nanospheres formation through nanoscale melt-solidification mechanism in Sm-Fe(Ta)-N system”

S. Šturm*, K. Žužek-Rožman, S. Markoli, E. Sarantopoulou, Z. Kollia, A.C. Cefalas, S. Kobe,

17th International Microscopy Congress, Revealing the Nanoworld in Life and Materials Science, IMC 17, Sociedade Brasileira de Microscopia e Microanálise, Rio de Janeiro, Brazil, 19-24 September, 2010 (poster).

70. “The formation of hollow nanospheres in Sm-Fe(Ta)-N system”,
S. Šturm*, K. Žužek-Rožman, B. Markoli, E. Sarantopoulou, Z. Kollia, A.C. Cefalas, and S. Kobe,
Past, present and future of (S)TEM and its applications: a tribute to the work of Christian Colliex, Paris, France, 9-11 June, 2010 (poster).
71. “Advanced TEM characterization methods of magnetic nanostructures”,
S. Šturm*, K. Žužek-Rožman, E. Sarantopoulou, Z. Kollia, A.C. Cefalas, and S. Kobe,
21st Workshop on Rare-Earth Permanent Magnets and their Applications, REPM'10, Bled, Slovenia, 29 August – 2 September, 2010 (oral).
72. “Photonic interfaces: Laser tailoring of nanocomposites for sensors and other applications”,
N. A. Vainos*, L. Athanasekos, M. Vasileiadis, A. Meristoudi, Ch. Mantzaridis, V. Karoutsos, D. Alexandropoulos, S. Pispas, and M. Sigalas,
7th International Conference on Nanosciences & Nanotechnologies – NN10, Ouranopolis Halkidiki, Greece, 11-14 July, 2010 (invited talk).
73. “Photonic interfacing by laser light: structures and applications”,
N.A. Vainos*, L. Athanasekos, M. Vasileiadis, D. Alexandropoulos, V. Karoutsos, M. Sigalas,
XXVI Panhellenic Conference on Solid State Physics and Materials Science, Ioannina, 26-29 September, 2010 (invited talk).
74. “Nanostructured photonic sensors: materials, interfacing and applications”,
N.A. Vainos,
2nd Mediterranean Photonics Conference, Eilat, Israel, 29 Nov. – 2 Dec. 2010 (invited talk).
75. “Diffraction grating thin film sensors operating under the remote point optical sensing scheme”,
M. Vasileiadis*, L. Athanasekos, D. Alexandropoulos, A. Meristoudi, V. Karoutsos, M. Sigalas, and N. Vainos,
XXVI Panhellenic Conference on Solid State Physics and Materials Science; Ioannina, 26-29 September, 2010 (poster).
76. “Micro-nanopatterning of common polymers thin films and sculpturing of free standing structures by direct laser writing for photonic applications”,
L. Athanasekos*, C. Mantzaridis, V. Karoutsos, S. Pispas, and N.A. Vainos,
XXVI Panhellenic Conference on Solid State Physics and Materials Science; Ioannina, 26-29 September, 2010 (oral).
77. “Novel polymer microstructure formation by direct laser patterning and sculpturing for photonic applications”,
L. Athanasekos*, C. Mantzaridis, D. Alexandropoulos, V. Karoutsos, S. Pispas, and N.A. Vainos,
2nd Mediterranean Photonics Conference, Eilat, Israel, 29 November – 2 December, 2010 (oral).

78. “A comparative study of quantum well and quantum dot vertical cavity semiconductor optical amplifiers”,
M. Vasileiadis*, D. Alexandropoulos, C. Politi, A. Stavdas, and N.A. Vainos,
2nd Mediterranean Photonics Conference, Eilat, Israel, 29 November – 2 December, 2010 (oral).
79. “Theoretical study and experimental demonstration of diffraction grating sensors sensitivity enhancement”,
M. Vasileiadis*, L. Athanasekos, D. Alexandropoulos, V. Karoutsos, M. Sigalas, and N. Vainos,
COST MP0604 Workshop and Training School, Visegrád, Hungary, 5-8 October, 2010 (poster).
80. “Polymer microstructure formation by direct laser patterning and sculpturing for photonic applications”,
L. Athanasekos*, C. Mantzaridis, V. Karoutsos, S. Pispas, and N.A. Vainos,
COST MP0604 Workshop and Training School, Visegrád, Hungary 5-8 October, 2010 (oral).
81. “Silica-polymer photonic crystal fiber”,
G. Kakarantzas*, C. Markos, and K. Vlachos,
3rd Mediterranean Conference on Nanophotonics MediNano-3, Belgrade, Serbia, 18-19 October, 2010 (invited talk).
82. “Hybrid index-guiding photonic crystal fiber with tunable birefringence”,
C. Markos*, K. Vlachos, and G. Kakarantzas,
XVII Panhellenic Conference on Solid State Physics and Materials Science, Ioannina, Greece, 26-29 September, 2010 (poster).
83. “Bend measurements of a photonic crystal fiber with elastomer inclusions”,
C. Markos*, K. Vlachos, and G. Kakarantzas,
3rd Mediterranean Conference on Nanophotonics MediNano-3, Belgrade, Serbia, 18-19 October, 2010 (poster).
84. “Photonic sensors for autonomous wireless sensing nodes”,
C. Riziotis, D. Dimas*, S. Katsikas, and A.C. Boucouvalas,
23rd International Congress on Condition Monitoring and Diagnostic Engineering Management, COMADEM 2010, Nara, Japan, 28 June- 02 July, 2010 (Oral presentation and prototype demonstration at COMADEM’s industrial exhibition).