

1. Papers in Refereed Journals

1. “Correlation measures as benchmarks in reduced density matrix functional theory”,
N.N. Lathiotakis,
Int. J. Quant. Chem. 113, 762 (2013).
[DOI: 10.1002/qua.24069](https://doi.org/10.1002/qua.24069)
2. “In-plane force fields and elastic properties of graphene”,
G. Kalosakas, N.N. Lathiotakis, K. Galiotis, and K. Papaggelis,
J. Appl. Phys. 113, 134307 (2013).
[DOI: 10.1063/1.4798384](https://doi.org/10.1063/1.4798384)
3. “Reply to Comment on ‘Nonanalyticity of the optimized effective potential with finite basis sets’”,
N.I. Gidopoulos and N.N. Lathiotakis,
Phys. Rev. A 88, 046502 (2013).
[DOI: 10.1103/PhysRevA.88.046502](https://doi.org/10.1103/PhysRevA.88.046502)
4. “Theoretical study of free and encapsulated carboxylic acid and amide dimers”,
D. Tzeli, G. Theodorakopoulos, I.D. Petsalakis, D. Ajami, and J. Rebek, Jr,
Int. J. Quant. Chem 113, 734 (2013).
[DOI: 10.1002/qua.24062](https://doi.org/10.1002/qua.24062)
5. “Compression in encapsulated carboxylic acid homodimers”,
D. Tzeli, I.D. Petsalakis, and G. Theodorakopoulos,
Chem. Phys. Lett. 473, 48 (2013).
[DOI: 10.1016/j.cplett.2013.04.043](https://doi.org/10.1016/j.cplett.2013.04.043)
6. “Pyridinium-based tripodal chemosensor in visual sensing of AMP in water by indicator displacement assay (IDA)”,
K. Ghosh, S.S. Ali, A.R. Sarkar, A. Samadder, A.R. Khuda-Bukhsh, I.D. Petsalakis, and G. Theodorakopoulos,
Org. and Biomol. Chem. 11, 5666 (2013).
[DOI: 10.1039/c3ob40833g](https://doi.org/10.1039/c3ob40833g)
7. “Theoretical study on the electronic structure, formation and absorption spectra of lithium, sodium and potassium complexes of N-confused tetraphenylporphyrin”,
D. Tzeli, I.D. Petsalakis, and G. Theodorakopoulos,
Comput. and Theor. Chem. 1020, 38 (2013).
[DOI: 10.1016/j.comptc.2013.07.014](https://doi.org/10.1016/j.comptc.2013.07.014)
8. “Boronic acid sensors for saccharides: A theoretical study”,
I.D. Petsalakis and G. Theodorakopoulos,

Chem. Phys. Lett. 586, 111 (2013).

[DOI: 10.1016/j.cplett.2013.09.025](https://doi.org/10.1016/j.cplett.2013.09.025)

9. “Amplified halogen bonding in a small space”,

M.G. Sarwar, D. Ajami, G. Theodorakopoulos, I.D. Petsalakis, and J. Rebek, Jr,

J. Am. Chem. Soc. 135, 13672 (2013).

[DOI: 10.1021/ja407815t](https://doi.org/10.1021/ja407815t)

10. “Social isomers of picolines in a small space”,

D. Ajami, G. Theodorakopoulos, I. D. Petsalakis, and J. Rebek, Jr,

Chem. Eur. J. 19, 17092 (2013).

[DOI: 10.1002/chem.201303117](https://doi.org/10.1002/chem.201303117)

11. “All-organic sulfonium salts acting as efficient solution processed electron injection layer for PLEDs”,

D.G. Georgiadou, M. Vasilopoulou, L.C. Palilis, I.D. Petsalakis, G. Theodorakopoulos, V.

Constantoudis, S. Kennou, A. Karantonis, D. Dimotikali, and P. Argitis,

ACS Appl. Mater. Interfaces 5, 12346 (2013).

[DOI: 10.1021/am402991b](https://doi.org/10.1021/am402991b)

12. “Theoretical prediction of new Kubas four centre H₂ complexes involving dimolybdate clusters”,

E.D. Simandiras and D.G. Liakos,

Chem. Phys. Lett. 583, 18 (2013).

[DOI: 10.1016/j.cplett.2013.07.072](https://doi.org/10.1016/j.cplett.2013.07.072)

13. “Which component of the quadruple bond breaks first upon protonation of the octachlorodimetallate anions [MM'Cl₈](4-), M, M' = Mo, W? A theoretical study of reactivity, mechanism and bonding”,

E. D. Simandiras, N. Psaroudakis, and K. Mertis,

Polyhedron 54, 173 (2013).

[DOI: 10.1016/j.poly.2013.02.019](https://doi.org/10.1016/j.poly.2013.02.019)

14. “Erratum: Time dependent formation of the He 2s2p ¹P^o state excited by a short laser pulse. [Phys. Rev. A. 75, 013407 (2007)]”,

Th. Mercouris, Y. Komninos, and C.A. Nicolaides,

Phys. Rev. A. 87, 069905 (2013).

[DOI: 10.1103/PhysRevA.87.069905](https://doi.org/10.1103/PhysRevA.87.069905)

15. “Is radioactive decay really exponential?”,

C.A. Nicolaides,

EPL 101, 42001 (2013).

[DOI: 10.1209/0295-5075/101/42001](https://doi.org/10.1209/0295-5075/101/42001)

16. “Temperature dependence of the DNA double helix at the nanoscale: structure, elasticity and fluctuations”,

S. Meyer, N. Theodorakopoulos, M. Peyrard, R. Lavery, and R. Everaers,
Biophysical Journal 105, 1904 (2013).
[DOI: 10.1016/j.bpj.2013.09.004](https://doi.org/10.1016/j.bpj.2013.09.004)

17. “Classical-quantum correspondence in atomic ionization by midinfrared pulses: Multiple peak and interference structures”,
C. Lemell, J. Burgdörfer, S. Gräfe, K.I. Dimitriou, D.G. Arbó, and X.-M. Tong,
Phys. Rev. A. 87, 013421 (2013).
[DOI: 10.1103/PhysRevA.87.013421](https://doi.org/10.1103/PhysRevA.87.013421)

18. “Classical analysis of Coulomb effects in strong-field ionization of H_2^+ by intense circularly polarized laser fields”,
K. Doblhoff-Dier, K.I. Dimitriou, A. Staudte, and S. Gräfe,
Phys. Rev. A. 88, 033411 (2013).
[DOI: 10.1103/PhysRevA.88.033411](https://doi.org/10.1103/PhysRevA.88.033411)

19. “Thermal collapse of SAPO-34 molecular sieve towards a perfect glass”,
L. Wondraczek, G. Gao, D. Möncke, T. Selvam, A. Kuhnt, W. Schwieger, D. Palles, and E.I. Kamitsos,
J. Non-Cryst. Solids 360, 36 (2013).
[DOI: 10.1016/j.jnoncrysol.2012.10.001](https://doi.org/10.1016/j.jnoncrysol.2012.10.001)

20. “Spectroscopic study of manganese-containing borate and borosilicate glasses: cluster formation and phase separation”,
D. Möncke, D. Ehrt, and E.I. Kamitsos,
Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. B 54, 42 (2013).
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21. “Formation of an outer borosilicate glass layer on Late Bronze Age Mycenaean blue vitreous relief fragments”,
D. Möncke, D. Palles, N. Zacharias, M. Kaparou, E.I. Kamitsos, and L. Wondraczek,
Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. B 54, 52 (2013).
<http://www.ingentaconnect.com/content/sgt/pcg/2013/00000054/00000001/art00007>

22. “Lithium ion conducting boron-oxynitride amorphous thin films: Synthesis and molecular structure by infrared spectroscopy and density functional theory modeling”,
M. Dussauze, E.I. Kamitsos, P. Johansson, A. Matic, C.P. Varsamis, D. Cavagnat, P. Vinatier, and Y. Hamon,
J. Phys. Chem. C 117, 7202 (2013).
[DOI: 10.1021/jp401527x](https://doi.org/10.1021/jp401527x)

23. “Structure-property correlations in highly modified Sr, Mn-borate glasses”,
A. Winterstein-Beckmann, D. Möncke, D. Palles, E.I. Kamitsos, and L. Wondraczek,
J. Non-Cryst. Solids 376, 165 (2013).
[DOI: 10.1016/j.jnoncrysol.2013.05.029](https://doi.org/10.1016/j.jnoncrysol.2013.05.029)

24. “Structural characterization of reduced-charge montmorillonites. Evidence based on FTIR spectroscopy, thermal behaviour, and layer-charge systematics”,
E.N. Skoubris, G.D. Chryssikos, G.E. Christidis, and V. Gionis,
Clays and Clay Minerals 61, 83 (2013).

[DOI: 10.1346/CCMN.2013.0610207](https://doi.org/10.1346/CCMN.2013.0610207)

25. “Synchronous ATR infrared and NIR-spectroscopy investigation of sepiolite upon drying”,
V.J. Bukas, M. Tsampodimou, V. Gionis, and G.D. Chryssikos,
Vibrational Spectroscopy 68, 51 (2013).

[DOI: 10.1016/j.vibspec.2013.05.009](https://doi.org/10.1016/j.vibspec.2013.05.009)

26. “Optimized hydrogen sensing properties of nanocomposite NiO:Au thin films grown by dual pulsed laser deposition”,

I. Fasaki, M. Kandyla, M. Tsoutsouva, and M. Kompitsas,
Sensors and Actuators B: Chemical 176, 103 (2013); [arXiv:1304.5364](https://arxiv.org/abs/1304.5364)

[DOI: 10.1016/j.snb.2012.08.029](https://doi.org/10.1016/j.snb.2012.08.029)

27. “The influence of annealing temperature and tellurium (Te) on electrical and dielectrical properties of Al/p-CIGSeTe/Mo Schottky diodes”,

S. Fiat, I. Polat, E. Bacaksiz, M. Kompitsas, and G. Cankaya,
Current Applied Physics 13, 1112 (2013).

[DOI: 10.1016/j.cap.2013.03.006](https://doi.org/10.1016/j.cap.2013.03.006)

28. “The influence of stoichiometry and annealing temperature on the properties of CuIn_{0.7}Ga_{0.3}Se₂ and CuIn_{0.7}Ga_{0.3}Te₂ thin films”,

S. Fiat, P. Koralli, E. Bacaksiz, K.P. Giannakopoulos, M. Kompitsas, D.E. Manolakos, and G. Kankaya,

Thin Solid Films 545, 64 (2013).

[DOI: 10.1016/j.tsf.2013.07.032](https://doi.org/10.1016/j.tsf.2013.07.032)

29. “Enhanced phosphorescence from nanocrystalline/microcrystalline materials based on (CH₃NH₃)(1-naphthylmethyl ammonium)₂Pb₂Cl₇ and similar compounds”,

G.C. Papavassiliou, G. Pagona, G.A. Mousdis, and N. Karousis,
Chem. Phys. Lett. 570, 80 (2013).

[DOI:10.1016/j.cplett.2013.03.041](https://doi.org/10.1016/j.cplett.2013.03.041)

30. “Ni-dithiolenes: A theoretical study on structure-property relationships”,

A. Avramopoulos, H. Reis, G.A. Mousdis, and M.G. Papadopoulos,
Eur. J. Inorg. Chem. 2013, 4839 (2013).

[DOI:10.1002/ejic.201300534](https://doi.org/10.1002/ejic.201300534)

31. “Synthesis, experimental and theoretical investigation of a new type nickel dithiolene complex”,

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Polyhedron 62, 208 (2013).

[DOI: 10.1016/j.poly.2013.06.033](https://doi.org/10.1016/j.poly.2013.06.033)

32. “New hybrid materials with porphyrin-ferrocene and porphyrin-pyrene covalently linked to single-walled carbon nanotubes”,
S.P. Economopoulos, A. Skondra, K. Ladomenou, N. Karousis, G. Charalambidis, A.G. Coutsolelos, and N. Tagmatarchis,
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[DOI:10.1039/c3ra40310f](https://doi.org/10.1039/c3ra40310f)
33. “Rational design on n-type organic materials for high performance organic photovoltaics”,
C.L. Chochos, N. Tagmatarchis, and V. Gregoriou,
RSC Adv. 3, 7160 (2013).
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34. “Photoemission study of the electronic structure of azafullerene encapsulated single-walled carbon nanotubes”,
H. Yagi, Y. Tokumoto, M. Zenki, T. Zaima, T. Miyazaki, G. Rotas, N. Tagmatarchis, Y. Iizumi, T. Okazaki, and S. Hino,
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35. “Benzene cycloaddition on carbon nanohorns”,
D. Chronopoulos, N. Karousis, T. Ichihashi, M. Yudasaka, S. Iijima, and N. Tagmatarchis,
Nanoscale 5, 6388 (2013).
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36. “Photoinduced charge-transfer interactions on graphene/block copolymer electrostatically bound to tetracationic porphyrin in aqueous media”,
Th. Skaltsas, S. Pispas, and N. Tagmatarchis,
Chem. Eur. J. 19, 9286 (2013).
[DOI:10.1002/chem.201300806](https://doi.org/10.1002/chem.201300806)
37. “Immobilized CdS nanoparticles on poly(amidoamine)-functionalized MWCNTs”,
D. Chronopoulos, N. Karousis, and N. Tagmatarchis,
ECS J. Solid State Sci. Technol. 2, M3023 (2013).
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38. “A corrole-azafullerene dyad: Synthesis, characterization, electronic interactions and photoinduced charge separation”,
G. Rotas, G. Charalambidis, L. Glatzel, D. Gryko, A. Kahnt, A.G. Coutsolelos, and N. Tagmatarchis,
Chem. Commun. 49, 9128 (2013).
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39. “NEXAFS spectromicroscopy of suspended carbon nanohorns”,
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S.P. Economopoulos and N. Tagmatarchis,
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41. “Ultrasonication induces oxygenated species and defects onto exfoliated graphene”,
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42. “Thin films of poly(isoprene-b-ethylene oxide) diblock copolymers on mica: an atomic force microscopy study”,
M. Kalloudis, E. Glynos, S. Pispas, J. Walker, and V. Koutsos,
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43. “PEO-b-PCL-DPPC chimeric nanocarriers: self-assembly aspects in aqueous and biological media and drug incorporation”,
N. Pippa, E. Kaditi, S. Pispas, and C. Demetzos,
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44. “Relating structure, viscoelasticity, and local mobility to conductivity in PEO/LiTf electrolytes”,
G. Zardalidis, E. Ioannou, S. Pispas, and G. Floudas,
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45. “Polyelectrolyte-surfactant complexes of poly[3,5-bis(dimethylaminomethyl)-4-hydroxystyrene]-block-poly(ethylene oxide) and sodium dodecyl sulfate: Anomalous self-assembly behavior”,
J. Hajduova, K. Prochazka, M. Slouf, B. Angelov, G. Mountrichas, S. Pispas, and M. Stepanek,
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[DOI: 10.1021/la400583z](https://doi.org/10.1021/la400583z)
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H. Yang, J. Xu, S. Pispas, and G. Zhang,
RSC Advances 3, 6853 (2013).
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47. “DPPC/poly(2-methyl-2-oxazoline)-grad-poly(2-phenyl-2-oxazoline) chimeric nanostructures as potential drug nanocarriers”,
N. Pippa, E. Kaditi, S. Pispas, and C. Demetzos,
J. Nanopart. Res. 15, 1685 (2013).

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48. “Incorporation of dimethoxycurcumin into charged liposomes and the formation kinetics of fractal aggregates of uncharged vectors”,

M. Hadjidemetriou, N. Pippa, S. Pispas, and C. Demetzos,
J. Liposome Res. 23, 94 (2013).

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50. “Quaternized poly[3,5-bis(dimethylaminomethylene)hydroxystyrene] / DNA complexes: structure formation as a function of solution ionic strength”,

F. Delisavva, G. Mountrichas, and S. Pispas,
J. Phys. Chem. B 117, 7790 (2013).

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51. “The shape/morphology balance: a study of stealth liposomes via fractal analysis and drug encapsulation”,

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52. “Calcium carbonate microparticle templates using a PHOS-b-PMAA double hydrophilic copolymer”,

M. Mihai, G. Mountrichas, S. Pispas, I. Stoica, M. Aflori, M.A. der Landwehr, I. Neda, and S. Schwarz,

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53. “Thermoresponsive transition of a PEO-b-PNIPAM copolymer: From hierarchical aggregates to well defined ellipsoidal vesicles”,

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N. Pippa, S. Pispas, C. Demetzos, and G. Sivolapenko,
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55. “The thermotropic behavior of chimeric liposomes as the mechanistic explanation of drug release”,

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56. “Charge transport mechanisms and memory effects in amorphous TaNx thin films”,
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57 “Plasma-assisted nanoscale protein patterning on Si substrates via colloidal lithography”,
A. Malainou, K. Tsougeni, K. Ellinas, P.S. Petrou, V. Constantoudis, E. Sarantopoulou, K.
Awskiuk, A. Bernasik, A. Budkowski, A. Markou, I. Panagiotopoulos, S.E. Kakabakos, E.
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58. “Pulsed-laser fabrication of gas-filled hollow Co–Pt nanospheres”,
S. Sturm, K.Z. Rozman, B. Markoli, N.S. Antonakakis, E. Sarantopoulou, Z. Kollia, A.C. Cefalas,
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60. “Fiber optic architectures for strain monitoring of solid rocket motors' propellant”,
C. Riziotis, L. Eineder, L. Bancallari, and G. Tussiwand,
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fibers”,
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62. “Diffractive ammonia sensors based on sol-gel nanocomposites materials”,
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[DOI:10.4028/www.scientific.net/KEM.543.385](https://doi.org/10.4028/www.scientific.net/KEM.543.385)

2. Papers in Proceedings of International and National Conferences

1. “Low-energy peak structure in strong-field ionization by mid-infrared laser pulses”, C. Lemell, K.I. Dimitriou, D. G. Arbó, X.-M. Tong, D. Kartashov, J. Burgdörfer, and S. Gräfe, XVIIIth International Conference on Ultrafast Phenomena, *EPJ Web of Conferences* **41**, 02016/1-3 (2013).

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2. “Laborversuche zur bildung von borosilkatschichten auf kalk-natron-silikat gläsern – Vergoldung mykenischer glasfragmente unter zuhelfenahme von borax als flux”,

F. Drünert, M. Kaparou, E. Palamara, D. Palles, D. Möncke, E.I. Kamitsos, and N. Zacharias, Jahrestagung Archäometrie und Denkmalpflege, Weimar, Germany; September 25-28 2013, *Metalla*, Bochum Sonderheft 6, Eds.: A. Hauptmann, O. Mecking, and M. Prange, pp. 279-283 (2013).

3. “Färbende ionen und pigmente in gläsern und glasuren – Analyse mykenischer bis römischer glasproben aus südgriechenland mittels optische und vibrations-spektroskopie”,

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4. “Creation of a borosilicate layer upon gilding of Mycenaean vitreous relief fragments vs. weathering-induced polymerization in Classic Hellenic vitreous samples - an experimental study”, D. Möncke, F. Drünert, M. Kaparou, E.I. Kamitsos, E. Palamara, D. Palles, and N. Zacharias, in Living Glass Conference, History & Heritage of Glass, Society of Glass Technology; Cambridge, UK (Sept. 13, 2013). <http://www.heritage.sgt.org/130913-Doris.htm>.
5. “Vibrational study of thermally ion-exchanged sodium borosilicate glasses”, E. Stavrou, D. Palles, E.I. Kamitsos, A. Lipovskii, D. Tagantsev, Y. Svirko, and S. Honkanen, Proceedings of the XXIX Panhellenic Conference on Solid-State Physics and Materials Science (2 pgs), Athens, Greece; September 22-25, 2013.
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7. “Polymer fiber optic sensors for strain monitoring in solid rocket motors’ propellant”, C. Riziotis, L. Eineder, L. Bancallari, G. Tussiwand, Proceedings of CLEO/Europe-IQEC 2013. Munich, Germany; 12-16 May, # 14252680 (2013).
8. “Femtosecond laser inscription and micromachining in novel flexible glass flat-fibre chips”, K. Kalli, C. Markos, A. Posporis, C. Koutsides, C. Riziotis, A.S. Webb, J.K. Sahu, C. Holmes, J.C. Gates, and P.G.R. Smith, Proceedings of 4th Asia Pacific Optical Sensors Conference 2013 (APOS 2013), 15-18 Oct. 2013, Wuban, China.
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<h3>3. Book Chapters</h3>

1. “Formation of gold nanoparticles inside the corona of amphiphilic triblock copolymer micelles”, A. Meristoudi and S. Pispas, Gold Nanoparticles: Synthesis, Optical Properties and Applications for Cancer Treatment, A. Jarnagin and L. Halshausser (Eds.). Nova Science Publishers, Inc., USA; 2013, Chapter 4, pp. 103-119. ISBN 978-1-62257-927-3.
2. “Bio-inspired chimeric drug delivery nanosystems (chi-DDnSs): Their fractal morphology and regulatory aspects ”, N. Pippa, S. Pispas, and C. Demetzos, Recent Advances in Drug Delivery Research, V. Voliani (Ed.). Nova Science Publishers, Inc., USA; 2013, Chapter 4, pp. 73-96. ISBN 978-1-62948-228-6.

3. “Block polyelectrolyte micelles/protein mixed nanostructures in aqueous media”, M. Karayianni and S. Pispas, *Micelles: Structural Biochemistry, Formation, Functions & Usage*, D. Bradburn and T. Bittinger (Eds.). Nova Science Publishers, Inc., USA; 2013, Chapter 7. ISBN 978-1-62948-444-0.

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2. “The invisible features of serving trays: Technical examination and materials analysis”, M.A. Zacharia, D. Kotzamani, V. Paschalis, A. Phoca, V. Kantarellou, G. Karatasios, and G.D. Chryssikos, in *Rituals of Hospitality*, F. Nessi and M. Hatzaki (Eds.), Melissa Publishing House, Athens, pp. 231-254 (2013).
3. “Laser methods for the development and microscribing of 2nd generation thin-film solar cells” (in Greek), P. Koralli, M. Kandyla, M. Kompitsas, G. Mousdis, M. Girtan, and D.E. Manolakos, in *EU Researcher’s Night*; Athens, Greece (September 2013).
4. “Detection of thermal processing impact on olive and sunflower oil quality by FTIR spectroscopy”, M.-A. Poiana, G.A. Mousdis, C.A. Georgiou, E. Alexa, D. Moigradean, and I. Cocan, *Journal of Agroalimentary Processes and Technologies* 19, 48-56 (2013). http://www.journal-of-agroalimentary.ro/admin/articole/97775L08_Vol_19_1_2013_48-56.pdf
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5. Books Editing

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S. Rangelov, S. Pispas
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6. Patents

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D. Voiry, G. Pagona, N. Tagmatarchis and A. Penicaud,
European Patent, EP 2576440 A1 (April 10, 2013).

7. Dissertations

a. PhD theses

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C. Markos,
Supervisor: G. Kakarantzas,
University of Patras, Computer Engineering and Informatics Department (2013).

b. MSc theses

1. “Synthesis and properties of novel phtalocyanines”,
A. Thimiopoulos,
Supervisors: E.D. Simandiras, N. Psaroudakis,
University of Athens, Department of Chemistry (2013).
2. “Leaching studies in borosilicate glasses to simulate corrosion in Mycenaean glasses by non-destructive spectroscopic techniques”,
F. Drünert,
Supervisors: D. Möncke and E.I. Kamitsos,
Friedrich-Schiller-Universität, Otto-Schott-Institut, Jena, Germany (2013, Leonardo Da Vinci Program).
3. “Thermogravimetric and infrared spectroscopic study of the dehydration of phyllosilicates clays”,
M. Tsampodimou,
Supervisors: G.D. Chryssikos and K. Raptis,
National Technical University of Athens, School of Chemical Engineering (2013).
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Th. Skaltsas,
Supervisors: N. Tagmatarchis and S. Pispas,

National and Kapodistrian University of Athens, Department of Chemistry (2013).

5. “Effect of electromagnetic and magnetic fields on microcrystallization of calcium carbonate”,
A. Stefi,
Supervisors: A.C. Cefalas and L.H. Margaritis,
National & Kapodistrian University of Athens, Faculty of Biology (2013).

c. Honors theses

1. “Development of thin-film, a-Si:H solar cells using pulsed laser deposition”,
A. Mellos,
Supervisors: M. Kandyla, I. Zergioti, and I. Raptis,
National Technical University of Athens, School of Applied Mathematical & Physical Sciences
(2013).

2. “Synthesis, characterization and study of thin films of mesoporous titanium oxide (TiO₂)
and the absorption of organic compounds in them”,
A. Platanias,
Supervisors: G.A. Mousdis and A. Detsi,
National Technical University of Athens, School of Chemical Engineering (2013).

3. “Synthesis of new dithiolene complexes”,
D. Scandalis,
Supervisors: G.A. Mousdis and N. Psaroudakis,
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A. Pitsas,
Supervisors: G.A. Mousdis and N. Psaroudakis,
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E. Petsalaki,
Supervisor: N. Tagmatarchis,
National Technical University of Athens, School of Chemical Engineering (2013).

8. Conference Presentations

1. “Computational implementations in electronic structure theory”,
N.N. Lathiotakis*,
Workshop: “Scientific computing: simulation methods, and multi-scale modeling approaches”,
ACMAC, Department of Applied Mathematics, University of Crete, Heraklion, Greece, January
14-18, 2013 (invited talk).

2. “In-plane force fields and elastic properties of graphene”,

G. Kalosakas*, N.N. Lathiotakis, C. Galiotis, and K. Papagelis,
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Kirchberg, Austria, March 2-9, 2013 (poster).

3. “Elastic properties of graphene and graphene nanoribbons”,
G. Kalosakas*, N.N. Lathiotakis, C. Galiotis, and K. Papagelis,
IC4N 4th International Conference from Nanoparticles & Nanomaterials to Nanodevices &
Nanosystems, Corfu, Greece, June 16-20, 2013 (oral).

4. “Local effective potentials with correct asymptotic behavior in DFT and reduced-density-
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5. “Mechanical properties of graphene, graphene nanoribbons, and planar allotropes: A the-
oretical study”,
N.N. Lathiotakis*, G. Kalosakas, Z. G. Fthenakis, C. Galiotis, and K. Papagelis,
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6. “Raman and infrared spectroscopic study of archaeological glass samples of the classical
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8. “Structure of sulfophosphate glasses probed by IR and Raman spectroscopy”,
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9. “Contamination of phosphate glasses prepared from melts in alumina crucibles”,
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10. “Structural changes under indentation in low alkaline borosilicate glasses”,
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11. “Vibrational study of thermally ion-exchanged sodium borosilicate glasses”,
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12. “Lithium ion conducting boron-oxynitride amorphous thin films: Synthesis and molecular structure by infrared spectroscopy and DFT modeling”, M. Dussauze, E.I. Kamitsos*, P. Johansson, A. Matic, C.P.E. Varsamis, D. Cavagnat, P. Vinatier, and Y. Hamon, 12th International Conference on the Structure of Non-Crystalline Materials, Riva del Garda, Trento, Italy; July 7-12, 2013 (oral).

13. “Raman and IR spectroscopic study of vitreous artefacts from the Mycenaean to Roman period: Glassy matrix and crystalline pigments”, D. Möncke*, D. Palles, E.I. Kamitsos, E. Palamara, M. Papageorgiou, M. Kaparou, and N. Zacharias, Raman in Art and Archaeology RAA, Ljubljana, Slovenia; September 2-6, 2013 (poster with 5 min oral).

14. “Fluorescing defect centres induced by indentation in sodium- borosilicate glasses probed by micro-Raman and EPR spectroscopy”, A. Winterstein-Beckmann*, D. Möncke, D. Palles, E.I. Kamitsos, and L. Wondrazcek, “Living Glass”, Annual Conference of the Society of Glass Technology, Cambridge, UK; September 11 -13, 2013 (oral).

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16. “Laborversuche zur bildung von borosilicateschichten auf kalk-natron-silikat gläsern – vergoldung mykenischer glasfragmente unter zuhilfenahme von borax als flux”, F. Drünert*, M. Kaparou, E. Palamara, D. Palles, D. Möncke, E.I. Kamitsos, and N. Zacharias, Jahrestagung Archäometrie und Denkmalpflege, Weimar, Germany; September 25-28, 2013 (oral, 1st Prize).

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18. “Structure and dynamics of mixed alkali glasses formed by ion exchange”, E.I. Kamitsos, 6th Finnish-Russian Photonics and Laser Symposium - PALS'13, Kuopio, Finland; October 3-5, 2013 (invited talk).

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21. “Dehydration kinetics of sepiolites and palygorskites”,
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September 22-25, 2013 (poster).

22. “What is new in Maya blue?”
V. Gionis and G.D. Chryssikos*,
2nd International Conference on Clays, Clay Minerals and Layered Materials (CMLM 2013), St.
Petersburg, Russia; September 11-15, 2013 (oral).

23. “ATR-FTIR study of D₂O-saturated smectites”,
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24. “Hydrogenated amorphous silicon films grown by pulsed laser deposition for solar cell applications”,
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Germany; May 12-16, 2013 (poster).

26. “Optical, structural and morphological investigations for different metallic oxides”,
S. Iftimie, J. Merigeon, S. Antohe, M. Kompitsas, and M. Girtan*,
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27. “Study of physical properties of some transparent oxide semiconductor films obtained by thermal oxidation of metallic thin films”,
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P. Koralli*, M. Kandyla, M. Kompitsas, G. Mousdis, M. Girtan, and D.E. Manolakos,
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30. “Sol-gel grown compound ZnO:Au thin films for optoelectronics and gas sensing applications”,
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September 22-25, 2013 (poster).
31. “Physical properties of nickel doped ZnO thin films prepared by spray pyrolysis”,
M. Jlassi, I. Sta, M. Hajji, M.F.Boujmil, M. Kompitsas*, and H. Ezzaouia,
XXIX Panhellenic Conference on Solid-State Physics and Materials Science, Athens, Greece;
September 22-25, 2013 (poster).
32. “Structural and optical properties of TiO₂ thin films prepared by spin-coating technique”,
I. Sta, M. Jlassi, M. Hajji, M.F. Boujmil, M. Kompitsas*, and H. Ezzaouia,
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September 22-25, 2013 (poster).
33. “Multianalytes gas sensors by soft lithography induced gratings with sol-gel and copolymers nanocomposites”,
A. El Sachat, N. Aspiotis, M. Vasileiadis, G. Mousdis*, S. Pispas, N. Vainos, and C. Riziotis,
NATO Advanced Research Workshop “Nanotechnology in the security systems”, NATO ARW,
Yalta, Ukraine; September 29-October 3, 2013 (invited talk).
34. “Biocompatible nickel dithiolene complexes/amphiphilic diblock copolymers hybrid nanosystems”,
E. Vlassi*, G.A. Mousdis, and S. Pispas,
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September 22-25, 2013 (oral).
35. “Room temperature enhanced blue-green, yellow orange and red phosphorescence from (CH₃NH₃)_{n-1}(1-naphthylmethyl ammonium)₂Pb₂(Cl_xBr_{1-x})_{3n+1} and similar compounds n=1,2 and 0≤x≤1”,
G. C. Papavassiliou, G.A. Mousdis*, G. Pagona, and N. Karousis,
XXIX Panhellenic Conference on Solid-State Physics and Materials Science, Athens, Greece;
September 22-25, 2013 (poster).

36. “Detection of virgin olive oil adulteration by synchronous fluorescence spectroscopy”,
A. Papadochristopoulos, M.-A. Poiana, E. Alexa, G.A. Mousdis*, and C.A. Georgiou,
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37. “Detection of virgin olive oil adulteration with corn oil by synchronous fluorescence
spectroscopy”,
A. Papadochristopoulos*, M.-A. Poiana, E. Alexa, N. Buta, G.A. Mousdis, and C.A. Georgiou,
5th PanHellenic Conference “Modern Trends in Lipids”, Athens, Greece; March 29-30, 2013
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38. “Detection of thermal processing impact on olive and sunflower oil quality by FTIR
spectroscopy”,
M.-A. Poiana*, G.A. Mousdis, C.A. Georgiou, E. Alexa, D. Moigradean, and I. Cocan,
The 4th International Conference on Food Chemistry, Engineering & Technology, Timișoara,
Romania; May 30-31, 2013 (poster).
39. “SyFS as screening tool for marine pollution by petroleum products”,
I. Mijatović*, G. Mousdis, S. Glisic, A. Orlović, C.A. Georgiou,
3rd International Congress “Engineering, environment and materials in processing industry”,
Jahorina, Bosnia and Herzegovina; March 4-6, 2013 (poster).
40. “Water-soluble exfoliated graphene and graphene/block copolymer/porphyrin hybrid
materials managing photoinduced charge transfer interactions”,
Th. Skaltsas*, S. Pispas, and N. Tagmatarchis,
GDR-I GNT – Graphene and Nanotubes: Science and Applications, Lorient, France; April 8-12,
2013 (poster).
41. “Water-soluble non-covalent graphene-pyrene-porphyrin ensemble. An optical study”,
S. Economopoulos* and N. Tagmatarchis,
GDR-I GNT – Graphene and Nanotubes: Science and Applications, Lorient, France; April 8-12,
2013 (oral).
42. “Complexation of cationic amphiphilic block polyelectrolyte aggregates with antitumoral
peptide”,
N. Pippa*, S. Pispas, C. Demetzos, and G. Sivolapenko,
8th International Dendrimer Symposium, Madrid, Spain; June 23-27, 2013 (poster).
43. “The interplay between the rate of release from advanced drug delivery nanosystems and
their fractal morphology”,
N. Pippa, A. Dokoumetzidis, S. Pispas, and C. Demetzos*,
8th International Dendrimer Symposium, Madrid, Spain; June 23-27, 2013 (poster).
44. “DPPC:MPOX chimeric nanocontainers: the fractal sculpture of novel advanced drug
delivery nanosystems and drug release studies”,
M. Merkouraki, N. Pippa, S. Pispas, and C. Demetzos*,

8th International Dendrimer Symposium, Madrid, Spain; June 23-27, 2013 (poster).

45. “Fractal analysis of conventional and chimeric liposomal aggregates”,
N. Pippa, S. Pispas, and C. Demetzos*,
8th International Dendrimer Symposium, Madrid, Spain; June 23-27, 2013 (poster).

46. “Chimeric nanostructures via complexation of a block polyelectrolyte and proteins of different molecular shape”,
M. Karayianni*, G. Mountrichas, and S. Pispas,
10th International Conference on Nanosciences and Nanotechnologies, Thessaloniki, Greece;
July 9-12, 2013 (poster).

47. “Interaction of peripherally functionalized block copolymer micelles with lysozyme: Towards the construction of virus-like nanoparticles”,
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10th International Conference on Nanotechnologies and Nanosciences, Thessaloniki, Greece;
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48. “Advanced photonic structures via 193 nm excimer laser microfabrication”,
M. Vasileiadis*, L. Athanasekos, N. Aspiotis, D. Alexandropoulos, V. Karoutsos, I. Koutselas, S. Pispas, and N. Vainos,
10th International Conference on Nanotechnologies and Nanosciences, Thessaloniki, Greece;
July 9-12, 2013 (poster).

49. “Radiation forces as a novel micropatterning tool”,
L. Athanasekos*, M. Vasileiadis, S. Pispas, and N. Vainos,
10th International Conference on Nanotechnologies and Nanosciences, Thessaloniki, Greece;
July 9-12, 2013 (poster).

50. “Novel linear tri-block terpolymer responsive nanoassemblies as potential protein nanocarriers”,
A. Meristoudi* and S. Pispas,
10th IUPAC International Conference on Advanced Polymers via Macromolecular Engineering, Durham, UK; August 18-22, 2013 (poster).

51. “Electrostatic Complexation between a Block Polyelectrolyte and Proteins of Different Molecular Shape”,
M. Karayianni* and S. Pispas,
International Soft Matter Conference, Rome, Italy; September 15-19, 2013 (poster).

52. “Scattering study of complexation of lysozyme with triblock polyelectrolyte micelles”,
A. Papagiannopoulos*, M. Karayianni, G. Mountrichas, S. Pispas, and A. Radulescu,
XXIX Panhellenic Conference on Solid-State Physics and Materials Science, Athens, Greece;
September 22-25, 2013 (poster).

53. “Thermoresponsive transition of a PEO-b-PNIPAM block copolymer: from hierarchical aggregates to well defined ellipsoidal vesicles”,
A. Papagiannopoulos*, J. Zhao, G. Zhang, S. Pispas, and A. Radulescu,
XXIX Panhellenic Conference on Solid-State Physics and Materials Science, Athens, Greece;
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54. “Thermoresponsive aggregation of PS-PNIPAM-PS triblock copolymer in aqueous solutions”,
A. Papagiannopoulos*, J. Zhao, S. Pispas, and A. Radulescu,
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55. “Polymer based nanostructures as carriers for drugs, proteins and nucleic acids”,
S. Pispas,
5th BBBB International Conference: From Drug Discovery and Formulation Strategies to
Pharmacokinetics-Pharmacodynamics, Athens, Greece; September 26-28, 2013 (invited talk).
56. “Protein Nanocarrier Systems Based on Their Complexes with a Block Polyelectrolyte”,
M. Karayianni* and S. Pispas,
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Pharmacokinetics-Pharmacodynamics, Athens, Greece; September 26-28, 2013 (poster).
57. “Thermoresponsive protein nanocarriers using a linear tri-block terpolymer”,
A. Meristoudi* and S. Pispas,
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58. “Complexation of cationic amphiphilic block polyelectrolyte aggregates with
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polyelectrolyte”,
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5th BBBB International Conference: From Drug Discovery and Formulation Strategies to
Pharmacokinetics-Pharmacodynamics, Athens, Greece; September 26-28, 2013 (poster).
60. “PEO-b-PCL:DPPC chimeric nanocarriers: self-assembly aspects in aqueous and
biological media and drug release studies”,
N. Pippa*, S. Pispas, A. Dokoumetzidis, and C. Demetzos,
5th BBBB International Conference, Athens, Greece; September 26-28, 2013 (oral).
61. “Incorporation of dimethoxycurcumin into charged liposomes and the formation kinetics
of fractal aggregates of uncharged vectors”,

- M. Hadjidemetriou, N. Pippa*, S. Pispas, and C. Demetzos,
5th BBBB International Conference, Athens, Greece; September 26-28, 2013 (poster).
62. “Fractal analysis of liposomal aggregation”,
N. Pippa*, S. Pispas, and C. Demetzos,
5th BBBB International Conference, Athens, Greece; September 26-28, 2013 (poster).
63. “The interplay between the rate of release from advanced drug delivery nanosystems and their fractal morphology”,
N. Pippa, A. Dokoumetzidis, S. Pispas, and C. Demetzos*,
5th BBBB International Conference, Athens, Greece; September 26-28, 2013 (poster).
64. “DPPC:MPOX chimeric nanocontainers: the fractal sculpture of novel advanced drug delivery nanosystems and drug release studies”,
M. Merkouraki, N. Pippa*, S. Pispas, and C. Demetzos,
5th BBBB International Conference, Athens, Greece; September 26-28, 2013 (poster).
65. “Thermoresponsive chimeric nanostructures from block copolymers and lysozyme”,
S. Pispas,
Polymer Materials Research and Innovations, Belchin, Bulgaria; October 30-November 1, 2013
(invited talk).
66. “The imaging and the fractal metrology of chimeric liposomes: The role of macromolecular architecture of polymeric guest”,
N. Pippa, S. Pispas, and C. Demetzos*,
ILS 2013 Meeting Liposome advances: progress in drug and vaccine delivery, London, UK;
December 14-17, 2013 (poster).
67. “The physicochemical/thermodynamic balance of advanced drug liposomal delivery systems as reflected on the drug release profile”,
N. Pippa, A. Dokoumetzidis, S. Pispas, and C. Demetzos*,
ILS 2013 Meeting Liposome advances: progress in drug and vaccine delivery, London, UK;
December 14-17, 2013 (poster).
68. “Studies on the self assembly of sterically stabilized liposomal drug delivery nano systems (LDDnSs) via fractal analysis”,
N. Pippa, S. Pispas, and C. Demetzos*,
ILS 2013 Meeting Liposome advances: progress in drug and vaccine delivery, London, UK;
December 14-17, 2013 (oral).
69. “Mixed/chimeric liposomes incorporating copolymers as advanced drug delivery systems”,
N. Pippa*, S. Pispas, and C. Demetzos,
Materials Today: Biomaterials virtual conference; November 19-21, 2013 (invited poster).

70. “The interrelationship between the thermal behavior of liposomal drug nanocarriers and their fractal morphology”,
K. Gardikis*, N. Pippa, S. Pispas, and C. Demetzos,
11th Mediterranean Conference on Calorimetry and Thermal Analysis, Medicta Athens, Greece;
June 12-15, 2013 (oral).
71. “The fractal morphology and the thermal behavior of liposomal drug nanocarriers”,
N. Pippa, S. Pispas, and C. Demetzos*,
11th Mediterranean Conference on Calorimetry and Thermal Analysis, Medicta Athens, Greece;
June 12-15, 2013 (poster).
72. “Preparation and thermal behavior of DPPC/MPOx chimeric liposomes”,
N. Pippa*, K. Gardikis, S. Pispas, and C. Demetzos,
11th Mediterranean Conference on Calorimetry and Thermal Analysis, Medicta Athens, Greece;
June 12-15, 2013 (poster).
73. “Study of water organization and thermoresponsive transition in aqueous solutions of brush copolymers”,
S. Kripotou*, A. Zaki, S. Pispas, and A. Kyritsis,
11th Mediterranean Conference on Calorimetry and Thermal Analysis, Medicta Athens, Greece;
June 12-15, 2013 (poster).
74. “Thermoresponsive behavior of brush copolymers studied by thermal and dielectric techniques”,
S. Kripotou*, A. Zaki, S. Pispas, and A. Kyritsis,
11th Mediterranean Conference on Calorimetry and Thermal Analysis, Medicta Athens, Greece;
June 12-15, 2013 (poster).
75. “Magnetic hybrid nanoassemblies with high magnetic response for controlled drug delivery”,
A. Bakandritsos*, A. Kolokithas, S. Pispas, N. Bouropoulos, and Y. Sarigiannis,
5th Greek Conference on Biomedical Technology, Athens, Greece; April 4-6, 2013 (oral).
76. “Block copolymer nanosystems encapsulating magnetic nanoparticles and drugs”,
E. Vlassi*, A. Bakandritsos, and S. Pispas,
8th Symposium of the Hellenic Society of Biomaterials, Athens, Greece; Nov. 15-16, 2013 (oral).
77. “Biocompatible γ -Fe₂O₃ nanoparticles/amphiphilic diblock copolymers hybrid nanocolloids”,
E. Vlassi*, A. Bakandritsos, and S. Pispas,
XXIX Panhellenic Conference on Solid-State Physics and Materials Science, Athens, Greece;
September 22-25, 2013 (poster).
78. “Effect of double hydrophilic copolymer presence, pH and supersaturation on the morphology, size and pH stability of CaCO₃ composite microparticles”,
M. Mihai*, G. Mountrichas, S. Pispas, and S. Schwartz,

17th International Conference on Crystal Growth and Epitaxy ICCGE-17, Warsaw, Poland; August 11-16, 2013 (oral).

79. “Anomalous self-assembly and co-assembly of double hydrophilic block copolymer poly(4-hydroxystyrene)-block-poly(ethylene oxide) and its polyelectrolyte derivatives in aqueous solutions”,

M. Stepanek*, J. Hajduova, K. Prochazka, B. Angelov, M. Slouf, G. Mountrichas, C. Mantzaridis, and S. Pispas,
European Polymer Congress EPF 2013, Pisa, Italy; June 16-21, 2013 (oral).

80. “Anomalous self- and co-assembly behavior of double-hydrophilic block polyelectrolytes”,

M. Stepanek*, J. Hajduova, K. Prochazka, M. Slouf, B. Angelov, C. Mantzaridis, G. Mountrichas, and S. Pispas,
12th International Conference on Frontiers of Polymers and Advanced Materials 12th ICFPAM, Auckland, New Zealand; December 8-13, 2013 (poster).

81. “Characterisation of thin films of polystyrene-*b*-poly(*p*-hydroxystyrene-*g*-ethylene oxide) on mica using atomic force microscopy”,

P. Chappilos*, M. Kalloudis, A. Hamilton, J. Zhao, S. Pispas, and V. Koutsos,
UK SPM 2013 Conference, Leeds, UK; June 26-27, 2013 (poster).

82. “Physicochemical and biopharmaceutical characterization of magnetic supramolecular assemblies for gene delivery”,

E. Haladjova*, S. Rangelov, C.B. Tsvetanov, V. Posheva, M. Geisler, S. Boye, A. Lederer, G. Mountrichas, S. Pispas, and A. Bakandritsos,
Precision Polymer Materials P2M, Chent, Belgium; August 25-28, 2013 (poster).

83. “Insights on different pathways for the PEGylation of alginate coated condensed-clustered magnetic nanocrystallites”,

A. Kolokithas-Ntoukas*, G. Mountrichas, S. Pispas, Y. Sarigiannis, Z. Markova, R. Zboril, and A. Bakandritsos,
NanoCon 2013, Brno, Czech Republic; October 16-18, 2013 (poster).

84. “Size-dependent gold nitride Schottky nanodiodes”,

N. Spyropoulos-Antonakakis*, E. Sarantopoulou, Z. Kollia, and A.C. Cefalas,
29th Panhellenic Conference on Solid-State Physics and Materials Science (PCSSP), Athens, Greece, 22-25 September, 2013 (oral).

85. “Local charge carrier transport mechanisms and memory effects in metal (Ta, Au, In) nitride nanostructures”,

N. Spyropoulos-Antonakakis*, E. Sarantopoulou, Z. Kollia, and A.C. Cefalas,
10th International Conference on Nanosciences & Nanotechnologies (NN13), Thessaloniki, Greece, 9-12 July, 2013 (poster).

86. “Effect of electromagnetic and magnetic fields on calcium carbonate microcrystallization”,

A.L. Stefi^{*}, A.D. Velentzas, A.S. Skouroliakou, A.C. Cefalas, D. Palles, and L.H. Margaritis, 35th Scientific Conference of Hellenic Association for Biological Sciences, Nafplio, 23-25 May, 2013 (poster & oral).

87. “Polymer fiber optic sensors for strain monitoring in solid rocket motors' propellant”, C. Riziotis^{*}, L. Eineder, L. Bancallari, and G. Tussiwand, CLEO/Europe-IQEC 2013. Conference on Lasers and Electro-Optics - International Quantum Electronics Conference, Munich, Germany; 12-16 May, 2013 (poster).

88. “Study on ArF excimer laser micromachining on polymer optical fibers for photonic sensor applications”, L. Athanasekos^{*}, M. Vasileiadis, A. El Sachat, C. Riziotis, and N.A. Vainos, 10th International Conference on Nanosciences & Nanotechnologies (NN13), Thessaloniki, Greece; 9-12 July, 2013 (poster).

89. “Wireless condition monitoring integrating smart computing and optical sensor technologies”, C. Emmanouilidis^{*} and C. Riziotis, 8th World Congress on Engineering Asset Management WCEAM, Hong Kong, China, 30 Oct-1 Nov, 2013 (oral).

90. “Femtosecond laser inscription and micromachining in novel flexible glass flat-fibre chips”, K. Kalli^{*}, C. Markos, A. Posporis, C. Koutsides, C. Riziotis, A.S.Webb, J.K. Sahu, C. Holmes, J.C. Gates, and P.G.R. Smith, 4th Asia Pacific Optical Sensors Conference 2013 (APOS 2013), Wuban, China, 15-18 Oct, 2013 (oral).