

1. Papers in Refereed Journals

1. “Tailoring the spacer type and length in push–pull chromophores. Insights from a systematic theoretical study”,
I.S.K. Kerkines, N.N. Lathiotakis, G. Theodorakopoulos, and I.D. Petsalakis,
Chem. Phys. Lett. 653, 178 (2016).
[DOI: 10.1016/j.cplett.2016.04.072](https://doi.org/10.1016/j.cplett.2016.04.072)
2. “Conditions for describing triplet states in reduced density matrix functional theory”,
I. Theophilou, N.N. Lathiotakis, and N. Helbig,
J. Chem. Theory Comput. 12, 2668 (2016).
[DOI: 10.1021/acs.jctc.6b00257](https://doi.org/10.1021/acs.jctc.6b00257)
3. “Short-range ordering effects on the electronic Bloch spectral function of real materials in the nonlocal coherent-potential approximation”,
A. Marmodoro, A. Ernst, S. Ostanin, L. Sandratskii, P. E. Trevisanuto, N.N. Lathiotakis, and J.B. Staunton,
Phys. Rev. B 94, 224205 (2016).
[DOI:10.1103/PhysRevB.94.224205](https://doi.org/10.1103/PhysRevB.94.224205)
4. “2,2'-dihydroxybenzophenones and derivatives. Efficient synthesis and structure endoscopy by DFT and NMR. Credentials as potent antiinflammatory agents”,
D. Tzeli, P. Kozielowicz, M. Zervou, C. Potamitis, K. Kokkotou, B. Rak, A. Petrou, E. Tsolaki, A. Gavalas, A. Geronikaki, I.D. Petsalakis, and P.G. Tsoungas,
Chem. Select 1, 2426 (2016).
[DOI:10.1002/slct.201600396](https://doi.org/10.1002/slct.201600396)
5. “Molecular logic gates based on benzo-18-crown-6 ether of styrylquinoline. A theoretical study”,
D. Tzeli, I.D. Petsalakis, and G. Theodorakopoulos,
Phys. Chem. Chem. Phys. 18, 32132 (2016).
[DOI:10.1039/C6CP06899E](https://doi.org/10.1039/C6CP06899E)
6. “EUV two-photon ionization cross-sections of helium from the solution of the time-dependent Schrödinger equation, and comparison with measurements using free-electron laser”,
Th. Mercouris, Y. Komninos, and C.A. Nicolaidis,
Phys. Rev. A 94, 063406 (2016).
<https://doi.org/10.1103/PhysRevA.94.063406>
7. “Quantum chemistry on the time axis: electron correlations and rearrangements on femtosecond and attosecond scales”,
C.A. Nicolaidis,
Mol. Phys. 114, 453 (2016).

<http://www.tandfonline.com/doi/abs/10.1080/00268976.2015.1080870>

8. “Designing non-classical non-transition-metal hydrogen complexes: Theoretical prediction of $\text{Si}_2\text{F}_3(\mu_2\text{-H}_2)$ ”,
I.S.K. Kerkines and C.A. Nicolaidis,
J. Comput. Methods Sci. Eng. 16, 801 (2016).
[DOI: 10.3233/JCM-160692](https://doi.org/10.3233/JCM-160692)
9. “Minimization principle for non degenerate excited states (independent of orthogonality to lower lying known approximants)”,
N.C. Bacalis,
J. Comput. Methods Sci. Eng. 16, 253 (2016).
[DOI: 10.3233/JCM-160616](https://doi.org/10.3233/JCM-160616)
10. “Tetrathiomolybdate complexes of rhodium(I) with molybdenum-rhodium interactions”,
N. Xamonaki, A. Asimakopoulos, A. Balafas, M. Dasenaki, I. Choinopoulos, S. Coco, E. Simandiras and S. Koinis,
Inorg. Chem. 55, 4771 (2016).
[DOI: 10.1021/acs.inorgchem.6b00072](https://doi.org/10.1021/acs.inorgchem.6b00072)
11. “Structure and mechanical properties of copper-lead and copper-zinc borate glasses”,
Z.Y. Yao, D. Moncke, E.I. Kamitsos, P. Houizot, F. Celarie, T. Rouxel, and L. Wondraczek,
J. Non-Cryst. Solids 435, 55 (2016).
[DOI: 10.1016/j.jnoncrysol.2015.12.005](https://doi.org/10.1016/j.jnoncrysol.2015.12.005)
12. “Vibrational spectroscopic and bond valence study of structure and bonding in Al_2O_3 -containing AgI-AgPO_3 glasses”,
D. Palles, I. Konidakis, C.P.E. Varsamis, and E.I. Kamitsos,
RSC Adv. 6, 16697 (2016).
[DOI: 10.1039/c6ra00162a](https://doi.org/10.1039/c6ra00162a)
13. “Halogen effects on ordering and bonding of CH_3NH_3^+ in $\text{CH}_3\text{NH}_3\text{PbX}_3$ ($\text{X}=\text{Cl, Br, I}$) hybrid perovskites: A vibrational spectroscopic study”,
R. Niemann, A. Kontos, D. Palles, E.I. Kamitsos, A. Kaltzoglou, F. Brivio, P. Falaras, and P. Cameron,
J. Phys. Chem. C 120, 2509 (2016).
[DOI: 10.1021/acs.jpcc.5b11256](https://doi.org/10.1021/acs.jpcc.5b11256)
14. “Phosphate structure and lithium environments in lithium phosphorus oxynitride amorphous thin films”,
M.A.C. Solano, M. Dussauze, P. Vinatier, L. Croguennec, E.I. Kamitsos, R. Hausbrand, and W. Jaegermann,
Ionics 22, 471 (2016).
[DOI: 10.1007/s11581-015-1573-1](https://doi.org/10.1007/s11581-015-1573-1)
15. “Technology issues of Byzantine glazed pottery from Corinth, Greece”,

E. Palamara, N. Zacharias, M. Xanthopoulou, Zs. Kasztovszky, I. Kovács, D. Palles, and E.I. Kamitsos,
Microchem. J. 129, 137 (2016).
[DOI: 10.1016/j.microc.2016.06.008](https://doi.org/10.1016/j.microc.2016.06.008).

16. “Transition and post-transition metal ions in borate glasses: Borate ligand speciation, cluster formation, and their effect on glass transition and mechanical properties”,
D. Möncke, E.I. Kamitsos, D. Palles, R. Limbach, A. Winterstein-Beckmann, T. Honma, Z. Yao, T. Rouxel, and L. Wondraczek,
J. Chem. Phys. 145, 124501 (2016).
[DOI: 10.1063/1.4962323](https://doi.org/10.1063/1.4962323).

17. “Studying a funerary Roman vessel glass collection from Patras, Greece: An interdisciplinary characterisation and use study”,
E. Palamara, N. Zacharias, L. Papakosta, D. Palles, E.I. Kamitsos, and J. Pérez-Arantegui,
STAR: Science & Technology of Archaeological Research 2, 203 (2016).
[DOI: 10.1080/20548923.2016.1239868](https://doi.org/10.1080/20548923.2016.1239868).

18. “Sorption mechanism(s) of orthophosphate onto Ca(OH)₂ pretreated bentonite”,
G. Markou, V.J. Inglezakis, D. Mitrogiannis, I. Efthimiopoulos, M. Psychoyou, P. Koutsovitis, K. Muylaert, and I. Baziotis,
RSC Adv. 6, 22295 (2016).
[DOI: 10.1039/C5RA27638A](https://doi.org/10.1039/C5RA27638A)

19. “Structure and dynamics of water-smectite interfaces: Hydrogen bonding and the origin of the sharp O-D_w/O-H_w infrared band from molecular simulations”,
M. Szczerba, A. Kuligiewicz, A. Derkowski, V. Gionis, G.D. Chryssikos, and A.G. Kalinichev,
Clays and Clay Minerals 64, 452 (2016).
[DOI: 10.1346/CCMN.2016.0640409](https://doi.org/10.1346/CCMN.2016.0640409)

20. “Surface functionalization of sol-gel grown NiO thin films with palladium nanoparticles for hydrogen sensing”,
I. Sta, M. Jlassi, M. Kandyla, M. Hajji, P. Koralli, F. Krout, M. Kompitsas, and H. Ezzaouia,
Int. Journal of Hydrogen Energy 41, 3291 (2016).
[DOI: 10.1016/j.ijhydene.2015.12.109](https://doi.org/10.1016/j.ijhydene.2015.12.109)

21. “Brightness of blue/violet luminescent nano-crystalline AZO and IZO thin films with effect of layer number: for high optical performance”,
P. Koralli, S. Fiat-Varol, M. Kompitsas, and M. Girtan,
Chin. Phys. Letters 33, 056801 (2016).
[DOI: 10.1088/0256-307X/33/5/056801](https://doi.org/10.1088/0256-307X/33/5/056801)

22. “Nickel dithiolene complexes encapsulated in biocompatible amphiphilic diblock copolymer nanoparticles”,
E. Vlasi, G. Mousdis, and S. Pispas,
J. Polym. Sci., Part B: Polym. Phys. 54, 2507 (2016).

[DOI: 10.1002/polb.24247](https://doi.org/10.1002/polb.24247)

23. “Photoinduced charge separation in an oligophenylenevinylene-based Hamilton-type receptor supramolecularly associating two C₆₀-barbiturate guests”,
G. Pagona, A. Stergiou, H.B. Gobeze, G. Rotas, F. D’Souza, and N. Tagmatarchis,
Phys. Chem. Chem. Phys. 18, 811 (2016).

[DOI: 10.1039/c5cp05657h](https://doi.org/10.1039/c5cp05657h)

24. “Azafullerene C₅₉N in donor-acceptor dyads: Synthetic approaches and properties”,
G. Rotas and N. Tagmatarchis,
Chem. Eur. J. 22, 1206(2016).

[DOI: 10.1002/chem.201502190](https://doi.org/10.1002/chem.201502190)

25. “Structure, properties, functionalization and applications of carbon nanohorns”,
N. Karousis, I. Suarez, C.P. Ewels, and N. Tagmatarchis,
Chem. Rev. 116, 4850 (2016).

[DOI: 10.1021/acs.chemrev.5b00611](https://doi.org/10.1021/acs.chemrev.5b00611)

26. “All-carbon nanosized hybrid materials: Fluorescent carbon dots conjugated to multi-walled carbon nanotubes”,
T. Skaltsas, A. Stergiou, D.D. Chronopoulos, S. Zhao, H. Shinohara, and N. Tagmatarchis,
J. Phys. Chem. C 120, 8550 (2016).

[DOI: 10.1021/acs.jpcc.6b02267](https://doi.org/10.1021/acs.jpcc.6b02267)

27. “[3+2] cycloaddition reaction of azomethine ylides generated by thermal ring opening of aziridines onto carbon nanohorns”,
D.D. Chronopoulos, Z. Liu, K. Suenaga, M. Yudasaka, and N. Tagmatarchis,
RSC Adv. 6, 44782 (2016).

[DOI: 10.1039/c6ra07167h](https://doi.org/10.1039/c6ra07167h)

28. “Individualized p-doped carbon nanohorns”,
A. Stergiou, Z. Liu, B. Xu, T. Kaneko, C.P. Ewels, K. Suenaga, M. Zhang, M. Yudasaka, and N. Tagmatarchis,
Angew. Chem. Int. Ed. 55, 10468 (2016).

[DOI: 10.1002/anie.201605644](https://doi.org/10.1002/anie.201605644)

29. “Fluorene-perylene diimide arrays onto graphene sheets for photocatalysis”,
A. Stergiou and N. Tagmatarchis,
ACS Appl. Mater. Interf. 8, 21576 (2016).

[DOI: 10.1021/acsami.6b06797](https://doi.org/10.1021/acsami.6b06797)

30. “Axially substituted silicon phthalocyanine as electron donor in a dyad and triad with azafullerene as electron acceptor for photoinduced charge separation”,
G. Rotas, L. Martin-Gomis, K. Ohkubo, F. Fernandez-Lazaro, S. Fukuzumi, N. Tagmatarchis, and A. Sastre-Santos,
Chem. Eur. J. 22, 15137 (2016).

[DOI: 10.1002/chem.201603065](https://doi.org/10.1002/chem.201603065)

31. “Spectromicroscopy of C₆₀ and azafullerene C₅₉N: Identifying surface absorbed water”, D. Erbahar, T. Susi, X. Rocquefelte, C. Bittencourt, M. Scardamaglia, P. Blaha, P. Guttmann, G. Rotas, N. Tagmatarchis, X. Zhu, A.P. Hitchcock, and C.P. Ewels, *Scientific Reports* **6**, 35605 (2016).

[DOI: 10.1038/srep35605](https://doi.org/10.1038/srep35605)

32. “Hybrids of metal nanoclusters and graphene-based materials: Preparation, properties and applications”,

M.A. Koklioti and N. Tagmatarchis,

ChemNanoMat. **2**, 1065 (2016).

[DOI: 10.1002/cnma.201600287](https://doi.org/10.1002/cnma.201600287)

33. “Chimeric lipid/block copolymer nanovesicles: physicochemical and bio-compatibility evaluation”,

N. Pippa, D. Stellas, A. Skandalis, S. Pispas, C. Demetzos, M. Libera, A. Marcinkowski, and B. Trzebicka,

Eur. J. Pharm. Biopharm. **107**, 295 (2016).

[DOI:10.1016/j.ejpb.2016.08.003](https://doi.org/10.1016/j.ejpb.2016.08.003)

34. “Polymer self-assembled nanostructures as innovative drug nanocarrier platforms”,

N. Pippa, S. Pispas, and C. Demetzos,

Curr. Pharm. Des. **22**, 2788 (2016). (invited review article)

[DOI: 10.2174/1381612822666160217141232](https://doi.org/10.2174/1381612822666160217141232)

35. “A dual stimuli-responsive polymer into phospholipid membranes: a thermotropic approach”,

I. Kolman, N. Pippa, A. Meristoudi, S. Pispas, and C. Demetzos,

J. Therm. Anal. Calorim. **123**, 2257 (2016).

[DOI: 10.1007/s10973-015-5080-4](https://doi.org/10.1007/s10973-015-5080-4)

36. “Calorimetric study on pH-responsive block copolymer grafted lipid bilayers: Rational design and development of liposomes”,

N. Pippa, M. Chountoulesi, A. Kyrili, A. Meristoudi, S. Pispas, and C. Demetzos,

J. Liposome Res. **26**, 211 (2016).

[DOI: 10.3109/08982104.2015.1076464](https://doi.org/10.3109/08982104.2015.1076464)

37. “Kinetics of temperature response of PEO-b-PNIPAM-b-PAA triblock terpolymer aggregates and of their complexes with lysozyme”.

A. Papagiannopoulos, A. Meristoudi, K. Hong, and S. Pispas,

Polymer **83**, 111 (2016).

[DOI: 10.1016/j.polymer.2015.12.023](https://doi.org/10.1016/j.polymer.2015.12.023)

38. “Design and evaluation of polymer matrices for the encapsulation of CdSe/ZnS quantum dots in photonic nanocomposite films”,

M. Vasileiadis, I. Koutselas, S. Pispas, and N.A. Vainos,
J. Polym. Sci., Part B: Polym. Phys. 54, 552 (2016).
[DOI: 10.1002/polb.23921](https://doi.org/10.1002/polb.23921)

39. “Poly(vinyl benzyl trimethylammonium chloride) homo and block copolymers complexation with DNA”,
E. Haladjova, G. Mountrichas, S. Pispas, and S. Rangelov,
J. Phys. Chem. B 120, 2586 (2016).
[DOI: 10.1021/acs.jpcc.5b12477](https://doi.org/10.1021/acs.jpcc.5b12477)

40. “Electrostatic complexation of a double hydrophilic block polyelectrolyte and proteins of different molecular shape”,
M. Karayianni, R. Radeva, N. Koseva, and S. Pispas,
J. Polym. Sci., Part B: Polym. Phys. 54, 1515 (2016).
[DOI: 10.1002/polb.24047](https://doi.org/10.1002/polb.24047)

41. “Complex formation between lysozyme and stabilized micelles with a mixed poly(ethylene oxide)/poly(acrylic acid) shell”,
M. Karayianni, V. Gancheva, S. Pispas, and P. Petrov,
J. Phys. Chem. B 120, 2625 (2016).
[DOI: 10.1021/acs.jpcc.6b00550](https://doi.org/10.1021/acs.jpcc.6b00550)

42. “Effect of polymer architecture on the ionic conductivity. Densely grafted poly(ethylene oxide) brushes doped with LiTf”,
G. Zardalidis, A. Pipertzis, G. Mountrichas, S. Pispas, M. Mezger, and G. Floudas,
Macromolecules 49, 2679 (2016).
[DOI: 10.1021/acs.macromol.6b00290](https://doi.org/10.1021/acs.macromol.6b00290)

43. “Particle tracking microrheology of the power-law viscoelasticity of xanthan solutions”,
A. Papagiannopoulos, K. Sotiropoulos, and S. Pispas,
Food Hydrocolloids 61, 201 (2016).
[DOI: 10.1016/j.foodhyd.2016.05.020](https://doi.org/10.1016/j.foodhyd.2016.05.020)

44. “Thermodynamic characterization of poly(4-hydroxystyrene)-g-[poly(propyleneoxide-b-ethylene oxide)] thermoresponsive brush copolymers”,
A. Thanassoulas, A. Papadopoulos, S. Pispas, J. Zhao, G. Zhang, and G. Nounesis,
Thermochimica Acta 638, 89 (2016).
[DOI: 10.1016/j.tca.2016.06.018](https://doi.org/10.1016/j.tca.2016.06.018)

45. “Thermoresponsive behavior of micellar aggregates from end-functionalized PnBA-b-PNIPAM-COOH block copolymers and their complexes with lysozyme”,
A. Papagiannopoulos, A. Meristoudi, S. Pispas, and U. Keiderling,
Soft Matter 12, 6547 (2016).
[DOI: 10.1039/c6sm00976j](https://doi.org/10.1039/c6sm00976j)

46. “Self-healing polymers: evaluation of self-healing process via non-destructive techniques”,
D.G. Bekas, D. Baltzis, K. Tsirka, D. Exarchos, T. Matikas, A. Meristoudi, S. Pispas, and A.S. Paipetis,
Plastics, Rubber and Composites 45, 147 (2016).
[DOI: 10.1080/14658011.2016.1151987](https://doi.org/10.1080/14658011.2016.1151987)
47. “Structure and crystallization behavior of poly(ethylene oxide) (PEO) chains in core-shell brush copolymers with poly(propylene oxide)-block-poly(ethylene oxide) side chains”,
S. Kriptou, C. Psylla, K. Kyriakos, K.N. Raftopoulos, J. Zhao, G. Zhang, S. Pispas, C.M. Papadakis, and A. Kyritsis,
Macromolecules 49, 5963 (2016).
[DOI: 10.1021/acs.macromol.6b00879](https://doi.org/10.1021/acs.macromol.6b00879)
48. “Micelles from HOOC-PnBA-b-PAA-C₁₂H₂₅ diblock amphiphilic polyelectrolytes as protein nanocarriers”,
A. Papagiannopoulos, A. Meristoudi, S. Pispas, and A. Radulescu,
Biomacromolecules 17, 3816 (2016).
[DOI: 10.1021/acs.biomac.6b01408](https://doi.org/10.1021/acs.biomac.6b01408)
49. “Effects of PHOS-b-PMAA additive and pH on the formation of calcium carbonate composite microparticles”,
M. Mihai, G. Mountrichas, S. Pispas, and B.C. Simionescu,
Revue Roumanie de Chimie 61, 657 (2016).
50. “Scattering investigation of multiscale organization in aqueous solutions of native xanthan”,
A. Papagiannopoulos, K. Sotiropoulos, and A. Radulescu,
Carbohydrate Polymers 153, 196 (2016).
[DOI: 10.1016/j.carbpol.2016.07.104](https://doi.org/10.1016/j.carbpol.2016.07.104)
51. “Plasmon enhanced optical tweezers with gold-coated black silicon”,
D.G. Kotsifaki, M. Kandyla, and P.G. Lagoudakis,
Scientific Reports 6, 26275 (2016).
[DOI: 10.1038/srep26275](https://doi.org/10.1038/srep26275)
52. “Isotropic contractive scaling of laser written microstructures in vitrified aerogels”,
N.A. Vainos, V. Karoutsos, B. Mills, R.W. Eason, and M. Prassas,
Opt. Mater. Express 6, 3814 (2016).
[DOI: 10.1364/OME.6.003814](https://doi.org/10.1364/OME.6.003814)
53. “Targeted downregulation of s36 protein uncovers its cardinal role in chorion biogenesis and architecture during *Drosophila melanogaster* oogenesis”,
A.D. Velentzas, P.D. Velentzas, N. Sagioglou, E.G. Konstantakou, A.K. Anagnostopoulos, M.M. Tsioka, V.E. Mpakou, Z. Kollia, C. Consoulas, L.H. Margaritis, I.S. Papassideri, G.Th. Tsangaris, E. Sarantopoulou, A.C. Cefalas, and D. J. Stravopodis.

Scientific Reports 6, 35511 (2016).
[DOI: 10.1038/srep35511](https://doi.org/10.1038/srep35511)

54. “Microwave resonant technique in studies of photodielectric properties of bulk, thin film and nanoparticle materials”,
V.V. Pavlov, R.M. Rakhmatullin, A.C. Cefalas, and V.V. Semashko,
Meas. Sci. Technol. 27, 065004 (2016).
[DOI: 10.1088/0957-0233/27/6/065004](https://doi.org/10.1088/0957-0233/27/6/065004)

2. Papers in Proceedings of International and National Conferences

1. “The state-specific expansion approach to the solution of the time-dependent many-electron problem”,
C.A. Nicolaidis,
AIP Conference Proceedings 1790, 020003/1-4 (2016).
<http://doi.org/10.1063/1.4968629>

2. “Computing Correct Truncated Excited State Wavefunctions”,
N.C. Bacalis, Z. Xiong, J. Zang, and D. Karaoulanis,
AIP Conference Proceedings 1790, 020007/1-5 (2016).
<https://doi.org/10.1063/1.4968633>

3. “Experimental and theoretical spectroscopic studies of branchlet-like SrCO₃ superarchitecture”,
A. Divya, T. Mathavan, P. Arunarajeswari, J. Archana, Y. Hayakawa, D. Tzeli, and A.M.F. Benial,
AIP Conference Proceedings 1731, 050145/1-4 (2016).
[DOI:10.1063/1.4947799](https://doi.org/10.1063/1.4947799)

4. “Basalts from Santorini volcano: A new candidate martian analogue”,
A. Pantazidis, I. Baziotis, E. Manoutsoglou, A. Solomonidou, F. Schwandner, G. Economou, D. Palles, E. Kamitsos, N. Koukouzas, N. Keklikoglou, C. Arvanitidis, J. Martinez-Frias, and P.D. Asimow,
79th Annual Meeting of the Meteoritical Society, Berlin, Germany; August 07-12, 2016. Wiley-Blackwell, USA (ISSN: 1086-9379).
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5. “Interaction of clay materials with lead in aqueous solutions”,
Z. Kypritidou, A. Argyraki, G.D. Chryssikos, and M. Stamatakis,
Proceedings of the 14th International Conference of the Geological Society of Greece, Thessaloniki, Greece; May 25-27, 2016.
Bulletin of the Geological Society of Greece, vol. XLVIII, 2221-2230 (2016).

6. “Engineering of composite metallic microfibers towards development of plasmonic devices for sensing applications”,
A. Petropoulou, G. Antonopoulos, G. Kakarantzas., D.W. Hewak, M.N. Zervas and C. Riziotis,

IOP Conf. Ser.: Mater. Sci. Eng. **108**, 012027/1-5 (2016).

[DOI:10.1088/1757-899X/108/1/012027](https://doi.org/10.1088/1757-899X/108/1/012027)

7. “Amphiphilic block copolymer based photonic platform towards efficient protein detection”,

A. Petropoulou, T.J. Gibson, E. Themistou, S. Pispas and C. Riziotis,

SPIE/COS Photonics Asia 2016, Proc. SPIE 10025, Advanced Sensor Systems and Applications VII, 100250M/1-6 (2016).

[DOI:10.1117/12.2246506](https://doi.org/10.1117/12.2246506)

8. “Optimized design of metal coated optical fiber tips with embedded plasmonic slot nano-resonators for maximum field enhancement”,

A. Petropoulou, M.N. Zervas and C. Riziotis,

SPIE/COS Photonics Asia 2016. Proc. SPIE 10027, Nanophotonics and Micro/Nano Optics III, 100271G/1-6 (2016).

[DOI:10.1117/12.2246496](https://doi.org/10.1117/12.2246496)

9. “Grid-based visual aid for enhanced microscopy screening in diagnostic cytopathology”,

C. Riziotis and E. Tsiambas,

SPIE/COS Photonics Asia, Proc. SPIE 10024, Optics in Health Care and Biomedical Optics VII, 100244M/1-7 (2016).

[DOI:10.1117/12.2246515](https://doi.org/10.1117/12.2246515)

10. “Robust plasmonic tips fabricated by the tapering of composite hybrid silicate microfibers with metallic core”,

A. Petropoulou, G. Antonopoulos, P. Bastock, C. Craig, G. Kakarantzas, D.W. Hewak, M.N. Zervas and C. Riziotis,

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[DOI:10.1117/12.2246508](https://doi.org/10.1117/12.2246508)

3. Book Chapters

1. “Molecular dynamics simulation of material removal with the use of laser beam”,

A.P. Makropoulos, P. Koralli, G. Kyriakakis, M. Kompitsas, and D.E. Manolacos, Materials Forming and Machining, J.P. Davim (Ed.), Elsevier Ltd., Amsterdam, The Netherlands; Chapter 6, pp. 117-153 (2016). ISBN: 978-1-84800-212-8

[DOI: 10.1016/B978-0-85709-483-4.00006-5](https://doi.org/10.1016/B978-0-85709-483-4.00006-5)

2. “Resistivity sensors of metal oxides with metal nanoparticles as catalysts”,

G.A. Mousdis, M. Kompitsas, D. Tsamakis, M. Stamataki, G. Petropoulou, and P. Koralli, Nanomaterials for Security, J. Bonča and S. Kruchinin (eds.), NATO Science for Peace and Security Series A: Chemistry and Biology, Springer, Dordrecht; Chapter 15, pp. 187-199 (2016). ISBN 978-94-017-7593-9

DOI [10.1007/978-94-017-7593-9_15](https://doi.org/10.1007/978-94-017-7593-9_15)

3. “Bioinspired drug nanocarriers based on chimeric/mixed nanosystems”,
N. Pippa, S. Pispas, and C. Demetzos,
Encyclopedia of Nanoscience and Nanotechnology, H.S. Nalwa (Ed.), American Scientific Publishers, Valencia, California, USA; 2016 (invited).
4. “Physicochemical characterization and basic research principles of advanced drug delivery nano systems”,
N. Pippa, S. Pispas, and C. Demetzos,
Intelligent Nanomaterials (2nd Ed.), Advanced Materials Book Series, A. Tiwari, Y.K. Misha, H. Kobayashi, and A.P.F. Turner (Eds.), WILEY-Scrivener Publishing LLC, USA; 2016, Chapter 5, (invited). ISBN: 978-1-119-24248-2
5. “Complexes of poly(sodium(sulfamate/carboxylate)isoprene] with dodecyltrimethyl-ammonium bromide: nanoparticles with tunable aggregation”,
A. Papagiannopoulos and S. Pispas,
Polyelectrolytes: Theory, Properties and Applications, NOVA Science Publishers Inc., USA; 2016, Chapter 3, pp. 87-100 (invited). ISBN: 978-1-63485-836-6
6. “Mixed protein/polymer nanostructures at interfaces”,
A. Papagiannopoulos and S. Pispas,
Advanced Materials Interfaces, Advanced Materials Book Series, A. Tiwari, H.K. Patra, and X. Wang (Eds.), WILEY-Scrivener Publishing LLC, USA; 2016, Chapter 1, pp. 3-36 (invited). ISBN:9781119242451
7. “Self-assembly of amphiphilic block copolymers in selective solvents”,
M. Karayianni and S. Pispas,
Fluorescence Studies of Polymer Containing Systems, K. Prochazka (Ed.), Springer Series on Fluorescence 16, Springer International Publishing, Switzerland; 2016, Chapter 2, pp. 27-63 (invited). DOI 10.1007/978-3-319-26788-3_2
8. “Most popular microrheology techniques”,
A. Papagianopoulos,
Microrheology with Optical Tweezers: Principles and Applications, M. Tassieri (Ed.), Pan Stanford Publishing Pte. Ltd., Singapore 2016, Chapter 8, pp. 193-218. ISBN 978-981-4669-18-4

4. Patents

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5. Dissertations

<u>a. PhD theses</u>

1. “Laser micromachining of materials for the thin-films photovoltaic technology”,

P. Koralli,
Supervisors Prof. D. Manolakos and Dr. M. Kompitsas, National Technical University of Athens,
School of Mechanical Engineering (2016).

2. “Properties and dynamics of chromophoric dissolved organic matter (CDOM) in eastern mediterranean waters”,

E. Pitta,

Supervisor: G.A. Mousdis, in collaboration with the Hellenic Centre for Marine Research and the National and Kapodistrian University of Athens, Department of Chemistry (2016).

3. “Chimeric materials composed of graphene and polymers”,

T. Skaltsas,

Supervisors Dr. N. Tagmatarchis and S. Pispas, National and Kapodistrian University of Athens, Department of Chemistry (2016).

b. MSc theses

1. “PLMA-b-POEGMA amphiphilic block copolymers: Synthesis, characterization and solution properties”,

A. Skandalis,

Supervisor Dr. S. Pispas, National and Kapodistrian University of Athens, Department of Chemistry (2016).

2. “Studies on xanthan solutions and hydrogels by microrheology and complementary techniques”,

K. Sotiropoulos,

Supervisor Dr. S. Pispas, National and Kapodistrian University of Athens, Department of Chemistry (2016).

3. “DFT calculations of the electronic structure of heterodimetallic anionic complexes $[L_2Rh(MoS_4)]^-$ ”,

A. Balafas,

Supervisors: E.D. Simandiras and S. Koinis, University of Athens, Dept. of Chemistry (2016).

c. Honors theses

1. “Synthesis, characterization and theoretical calculation of dithiolene complexes”,

M. Kafetzi,

Supervisor Dr. G.A. Mousdis, National and Kapodistrian University of Athens, Department of Chemistry (2016).

2. “Preparation of metal oxides thin films by the sol-gel method, and study of their electrochemical sensing properties”,

G. Petropoulou,

Supervisor Dr. G.A. Mousdis, National and Kapodistrian University of Athens, Department of Chemistry (2016).

3. “Synthesis and characterization of copolymers with azobenzene side groups”,
N. Llabador,
University of Bordeaux, France, ERASMUS student. Supervisor: S. Pispas (2016).

4. I. Grylakis, Department of Materials Science and Engineering, University of Ioannina,
Supervisor: G. Kakarantzas (2016).

6. Conference Presentations

1. “Introduction and overview of the reduced density matrix functional theory”,
N.N. Lathiotakis,
“International workshop on: Reduced Density Matrices in Quantum Physics and the Role of Fermionic Exchange Symmetry”, Oxford, United Kingdom, 12-15/4/2016 (invited talk).

2. “Quantum Chemistry on the time axis”,
C.A. Nicolaidis,
International Conference on “Computational Chemistry”; Athens, March 17-20, 2016 (invited honorary plenary speaker).

3. “Time resolved many-electron physics in atoms and molecules”,
C.A. Nicolaidis,
Symposium honoring Donald Beck and Max Seel Houghton; Michigan, USA, May 16, 2016 (invited speaker).

4. “Designing nonclassical hydrogen complexes: The case of $\text{Si}_2\text{F}_3(\text{m}_2\text{-H}_2)$ ”,
I.S.K. Kerkines and C. A. Nicolaidis*,
Computational Chemistry Symposium of the ICCMSE 2016 conference; Athens, Greece, March 20, 2016 (invited talk).

5. “Glass, gold and borax: Borosilicate layers on late Bronze Age Mycenaean vitreous relief fragments”,
D. Möncke*, F. Drünert, F. Lind, A. Kästner, P. Vontobel, D. Palles, E.I. Kamitsos, L. Wondraczek, and N. Zacharias,
41st International Symposium on Archaeometry (ISA 2016), Kalamata, Greece; May 15-21, 2016 (poster).

6. “Structure and mechanical properties of copper lead and copper zinc borate glasses”,
Z.Y. Yao*, D. Möncke, P. Houizot, E.I. Kamitsos, F. Celarie, T. Rouxel, and L. Wondraczek,
24th International Congress on Glass, Shanghai, China; April 7-11, 2016 (poster).

7. “Connectivity and boron speciation in borosilicate glasses studied by vibrational and NMR spectroscopy”,
D. Möncke*, G. Tricot, L. Wondraczek, and E.I. Kamitsos,
24th International Congress on Glass, Shanghai, China; April 7-11, 2016 (poster).

8. “Surface modification of Mycenaean vitreous relief fragments: May gilding result in a borosilicate layer? Results from IR spectroscopy and neutron tomography”,
F. Drünert, F. Lind, A. Kästner, P. Vontobel, D. Palles, L. Wondraczek, E.I. Kamitsos, N. Zacharias, and D. Möncke*,
24th International Congress on Glass, Shanghai, China; April 7-11, 2016 (oral).

9. “Mykenische glasfragmente mit borosilicatschicht”,
F. Drünert*, F. Lind, A. Kästner, P. Vontobel, D. Palles, L. Wondraczek, E.I. Kamitsos, N. Zacharias, and D. Möncke,
Int. Symposium zur Erforschung mittelalterlicher und neuzeitlicher Glashütten Europas, Buhlbach, Germany; May 5-8, 2016 (oral).

10. “Mixed cation effect in $x\text{MgO}-(1-x)\text{SrO}-\text{P}_2\text{O}_5$ metaphosphate glasses”,
K. Griebenow*, D. Möncke, U. Hoppe, E.I. Kamitsos, and L. Wondraczek,
90th Annual Meeting of the German Society of Glass Technology (DGG), Goslar, Germany; June 6-8, 2016 (poster).

11. “Structure and properties of mixed divalent metaphosphate glasses and the mixed cation effect”,
K. Griebenow*, D. Möncke, E.I. Kamitsos, and L. Wondraczek,
90th Annual Meeting of the German Society of Glass Technology (DGG), Goslar, Germany; June 6-8, 2016 (oral).

12. “Structural studies by vibrational spectroscopy of glasses based on less-conventional glass formers: from sulfates to tungstates”,
D. Möncke* and E.I. Kamitsos,
ACerS GOMD-DGG Joint Annual Meeting / Structural Characterization of Glasses, Madison, Wisconsin, USA; May 18-21, 2016 (oral).

13. “Study of bioglasses and glass ceramics by infrared and Raman spectroscopy”,
D. Möncke* and E.I. Kamitsos,
ACerS GOMD-DGG Joint Annual Meeting / Glasses in Healthcare – Fundamentals and Applications, Madison, Wisconsin, USA; May 18-21, 2016 (invited).

14. “Second harmonic generation in tellurium oxide glasses by electro-thermal poling”,
N.S. Tagiara*, D. Palles, E.D. Simandiras, and E.I. Kamitsos,
8th Mediterranean Conference on Nano-photonics (MediNano-8), Athens, Greece; June 29-30, 2016 (poster).

15. “Thin film amorphous electrolytes by infrared spectroscopy”,
E.I. Kamitsos,

Workshop on Advanced Battery Testing & Safety and High Performance Organic Photovoltaics, Athens; July 12-13, 2016 (invited).

16. “Vibrational study of femtosecond laser-irradiated ULE glass”,
I. Efthimiopoulos, S. Richter, D. Möncke, L. Wondraczek, S. Nolte, and E.I. Kamitsos*,
Society of Glass Technology Centenary Conference and ESG 2016, Sheffield, UK; September 4-8, 2016 (oral).
17. “TeO₂ and zinc-tellurite glasses: properties, structure and second harmonic generation by electro-thermal poling”,
N.S. Tagiara*, D. Palles, E.D. Simandiras, V. Psycharis, A. Kyritsis, and E.I. Kamitsos,
Society of Glass Technology Centenary Conference and ESG 2016, Sheffield, UK; September 4-8, 2016 (poster).
18. “Structure and properties of mixed divalent metaphosphate glasses and the mixed cation effect”,
K. Griebenow*, D. Möncke, E.I. Kamitsos, and L. Wondraczek,
Society of Glass Technology Centenary Conference and ESG 2016, Sheffield, UK; September 4-8, 2016 (oral).
19. “Raman spectroscopic investigation of structural changes in ULE glass upon micro-indentation”,
F. Lind*, R. Limbach, D. Möncke, E.I. Kamitsos, S. Richter, S. Nolte, and L. Wondraczek,
Society of Glass Technology Centenary Conference and ESG 2016, Sheffield, UK; September 4-8, 2016 (oral).
20. “Structural investigations of binary glasses Sb₂O₃-Na₂O by Raman, FTIR and optical spectroscopy using Co²⁺ as probe ion”,
M.T. Soltani, S. Haddad, D. Möncke*, E.I. Kamitsos, and L. Wondraczek,
Society of Glass Technology Centenary Conference and ESG 2016, Sheffield, UK; September 4-8, 2016 (oral).
21. “Electro-thermal poling of new Sb₂O₃-based multicomponent heavy metal oxide glasses”,
F. Lind*, V. Frei, D. Möncke, D. Palles, S.M. Toufik, E.I. Kamitsos, and L. Wondraczek,
Society of Glass Technology Centenary Conference and ESG 2016, Sheffield, UK; September 4-8, 2016 (poster).
22. “Mixed cation effect in xMgO-(1-x)SrO-P₂O₅ metaphosphate glasses”,
K. Griebenow*, D. Möncke, U. Hoppe, E.I. Kamitsos, and L. Wondraczek,
Society of Glass Technology Centenary Conference and ESG 2016, Sheffield, UK; September 4-8, 2016 (oral).
23. “Structural and spectroscopic analyses of copper doped fluoride phosphate sulfate glasses”,
Q.H. Le*, D. Möncke, E.I. Kamitsos, and L. Wondraczek,
SGT100/ESG2016, Sheffield, UK; September 4-8, 2016 (poster).

24. “Properties of graphene supported on gold-coated black silicon”,
M. Kandyla*, N. Kelaidis, D. Palles, S.A. Giamini, M. Kanidi, J. Marquez, A. Dimoulas, and E.I. Kamitsos,
XXXII Panhellenic Conference on Solid State Physics and Materials Science, Ioannina, Greece;
September 18-21, 2016 (oral).
25. “Basalts from Santorini Volcano: A new candidate martian analogue”,
A. Pantazidis, I. Baziotis*, E. Manoutsoglou, A. Solomonidou, F. Schwandner, G. Economou, D. Palles, E.I. Kamitsos, N. Koukouzas, N. Keklikoglou, C. Arvanitidis, J. Martinez-Frias, and P.D. Asimow,
79th Annual Meeting of the Meteoritical Society, Berlin, Germany; August 7-12, 2016 (poster).
26. “Lower limit of smectite layer charge seen by the O-D method”,
A. Kuligiewicz*, A. Derkowski, V. Gionis, and G.D. Chryssikos,
53rd CMS Annual Meeting, Atlanta, Georgia, USA; June 5-8, 2016 (oral).
27. “A new spectroscopic method of layer charge measurement in smectites”,
A. Kuligiewicz*, A. Derkowski, K. Emmerich, G.E. Christidis, C. Tsiantos, V. Gionis, and G.D. Chryssikos,
8th Mid-European Clay Conference, MECC 2016, Košice, Slovakia; July 4-8, 2016 (oral).
28. “Structure and dynamics of water-smectite interfaces: Hydrogen bonding and the origin of the sharp O-D_w/O-H_w infrared band from molecular simulations”,
M. Szczerba*, A. Kuligiewicz, A. Derkowski, V. Gionis, G.D. Chryssikos, and A.G. Kalinichev,
8th Mid-European Clay Conference, MECC 2016, Košice, Slovakia; July 4-8, 2016 (oral).
29. “Structural and optoelectronic properties of cadmium oxide thin films prepared by sol-gel technique: Heat treatment effect”,
I. Ben Miled, M. Jlassi, I. Sta, M. Hajji, G. Petropoulou, M. Kompitsas*, G. Mousdis, and H. Ezzaouia,
IC-MAST, Athens, Greece; September 27-30, 2016 (poster).
30. “Structural and optoelectronic properties of CuO thin films prepared by sol-gel techniques”,
M. Dhaouadi, M. Jlassi, I. Sta, M. Hajji, G. Petropoulou*, G. Mousdis, M. Kompitsas, and W. Dimassi,
IC-MAST, Athens, Greece; September 27-30, 2016 (oral).
31. “Sol gel synthesis and characterization of TiO₂-ZnO nanocomposite thin films”,
K. Sahbeni, M. Jlassi, I. Sta, M. Kandyla, M. Kompitsas*, and W. Dimessi,
IC-MAST, Athens, Greece; September 27-30, 2016 (poster).
32. “Pulsed laser deposition of ZnO thin films decorated with Au and Pd nanoparticles with enhanced acetone sensing performance”,
M. Alexiadou, M. Kandyla, G. Mousdis, and M. Kompitsas*,

6th International Symposium for Transparent Conductive Materials, Chania, Greece; October 9-13, 2016 (poster).

33. “Properties of chemo-electrical hydrogen sensors based on NiO:Li/Pd thin-films”, I. Sta, M. Jlassi, M. Kandyla, M. Hajji, M. Kompitsas*, and H. Ezzaouia, 6th International Symposium for Transparent Conductive Materials, Chania, Greece; October 9-13, 2016 (poster).

34. “A family of hybrid halogen antimonates with a Q-1D structure”, G. Mousdis*, M. Kafetzi, V. Psycharis, and C.P. Raptopoulou, Crystallize COST Action Meeting, Coimbra, Portugal; April 6-8, 2016 (poster).

35. “Resistivity sensors of metal oxides with metal nanoparticles as catalysts”, G.A. Mousdis*, M. Kompitsas, G. Petropoulou, P. Koralli, and M. Kandyla, COST TO-BE Fall Meeting, Ljubljana, Slovenia; September 28–30, 2016 (poster).

36. “Studies of the physical properties CH₃NH₃PbI₃ nanowires thin films prepared by spin-coating”, M. Girtan*, G. Mousdis, A. Aukstulis, M. Rasheed, and R. Mallet, E-MRS 2016 Spring Meeting, Lille, France; May 2-6, 2016 (poster).

37. “Synthesis and characterization of symmetric and asymmetric phthalocyanines containing sulfur”, F. Mpechraki*, A. Thymiopoulos, G.A. Mousdis, and N. Psaroudakis, 22nd Panhellenic Chemistry Congress, Thessaloniki, Greece; December 2-4, 2016 (poster).

38. “Synthesis, characterization and photocatalytic behaviour of noble metals doped titania thin films”, C. Moslah*, M.M. Islam, G. Petropoulou, N.S. Tagiara, M. Kandyla, M. Ksibi, and G.A. Mousdis, International Conference on Integrated Environmental Management for Sustainable Development (ICIEM 2016), Hammamet, Tunisia; November 27-30, 2016 (oral).

39. “Functionalization of azafullerene. New family of donor-acceptor dyads managing charge-transfer processes”, N. Tagmatarchis, ChemOnTubes, Brussels, Belgium; April 3-7, 2016 (invited talk).

40. “Carbon nanostructures for energy conversion”, N. Tagmatarchis, Workshop on Current trends and perspectives in organic materials and processes for high performance organic electronic applications, Athens, Greece; May 11, 2016 (invited talk).

41. “Design and development of multi-walled carbon nanotube – liposome drug delivery platforms”, N. Pippa*, D.D. Chronopoulos, C. Demetzos, and N. Tagmatarchis, European Advanced Materials Congress, Stockholm, Sweden; August 23-25, 2016 (poster).

42. “Functionalization of transition metal dichalcogenides with 1,2-dithiolanes”,
R. Canton-Vitoria*, Y. Sayed-Ahmad-Baraza, M. Pelaez-Fernandez, R. Arenal, C. Bittencourt, C. P. Ewels, and N. Tagmatarchis,
NanoteC16 – Carbon Nanoscience and Nanotechnology, Dublin, Ireland; August 31-September 3, 2016 (poster).
43. “CdTe/CdSe core/shell nanoparticles electrostatically immobilized onto graphene”,
A. Kagkoura* and N. Tagmatarchis,
NanoteC16 – Carbon Nanoscience and Nanotechnology, Dublin, Ireland; August 31-September 3, 2016 (poster).
44. “Silver nanoclusters immobilized onto graphene for the catalytic reduction of 4-nitrophenol”,
M. Koklioti*, T. Skaltsas, A. Stergiou, and N. Tagmatarchis,
NanoteC16 – Carbon Nanoscience and Nanotechnology, Dublin, Ireland; August 31-September 3, 2016 (poster).
45. “Combined DFT and experimental study of pyrene functionalized 2D-MoS₂ layers”,
Y. Sayed-Ahmad-Baraza*, R. Canton-Vitoria, N.M. Seck, B. Humbert, N. Tagmatarchis, and C. Ewels,
NanoteC16 – Carbon Nanoscience and Nanotechnology, Dublin, Ireland; August 31-September 3, 2016 (poster).
46. “Nanoring-fullerene complexation: Towards tubes of nanorings”,
J. Rio*, D. Erbahar, P. Briddon, N. Tagmatarchis, H.A. Wegner, and C. Ewels,
NanoteC16 – Carbon Nanoscience and Nanotechnology, Dublin, Ireland; August 31-September 3, 2016 (poster).
47. “Self-assembled nanostructures involving block polyelectrolytes”,
S. Pispas,
POLYMAT 2016, Zabrze, Poland; June 27-28, 2016 (invited lecture).
48. “Functional nanostructures from amphiphilic block copolymers and other building blocks”,
S. Pispas,
9th National Conference on Chemistry: Science and Technology for better Life, Sofia, Bulgaria;
September 29-October 1, 2016 (plenary lecture).
49. “Interaction of lysozyme with polymeric nanostructures: Strategies for immobilization of enzymes?”,
S. Pispas,
Dilemmas in structural biology: selection and integration of methods, Athens, Greece; February 14-17, 2016 (invited lecture).
50. “Functional nanostructures from amphiphilic block copolymers and other building blocks”,
S. Pispas,

German-Greek Workshop 2016, Athens, Greece; September 26-30, 2016 (invited lecture).

51. “Effect of lysozyme complexation on the thermoresponsive behavior of PnBA-b-PNIPAM-COOH micellar aggregates”,

A. Papagiannopoulos, A. Meristoudi, S. Pispas*, and U. Keiderling,

80th PMM: Self-assembly in the world of polymers, Prague, Czech Republic; July 10-14, 2016 (oral).

52. “PLMA-b-POEGMA amphiphilic block copolymers by RAFT polymerization: Synthesis and self-assembly in aqueous media”,

A. Skandalis and S. Pispas*,

11th Hellenic Polymer Society International Conference, Herakleion, Greece; November 3-5, 2016 (oral).

53. “Design and development of hybrid lipid/block copolymer nanostructures: physicochemical, morphological and in vitro evaluation”,

N. Pippa*, D. Stellas, A. Skandalis, S. Pispas, and C. Demetzos,

2nd International Congress of Greek Local Chapter of Controlled Release Society, Athens, Greece; June 22-24, 2016 (poster).

54. “Controlled drug release from pH-responsive polymer-grafted phospholipid bilayers”,

N. Naziris*, N. Pippa, A. Meristoudi, S. Pispas, and C. Demetzos,

2nd International Congress of Greek Local Chapter of Controlled Release Society, Athens, Greece; June 22-24, 2016 (poster).

55. “Chimeric lipid/block copolymer vesicles: physico-chemical, thermodynamic and biocompatibility evaluation”,

N. Pippa*, D. Stellas, A. Skandalis, S. Pispas, and C. Demetzos,

7th Panhellenic Congress on Thermal Analysis and Calorimetry- Therma 2016, Ioannina, Greece; May 27-29, 2016 (oral).

56. “Morphology of block copolymer electrolytes for rechargeable lithium batteries”,

B. Springer*, E. Metwalli, A. Skandalis, S. Pispas, and P. Müller-Buschbaum,

80th Annual Meeting of the DPG and Spring Meeting, Regensburg, Germany; March 6-11, 2016 (poster).

57. “Dielectric and calorimetric studies on poly(lauryl acrylate)-b-poly(N-isopropyl acrylamide) block copolymers”,

O. Vassiliadou*, S. Kriptomou, A. Skandalis, S. Pispas, and A. Kyritsis,

BDS 2016-9th International Conference on Broadband Dielectric Spectroscopy and its Applications, Pisa, Italy; September 11-16, 2016 (poster).

58. “Crystal growth of biological macromolecules using ultrasonic irradiation”,

A. Derpogolian, A. Papagiannopoulos, S. Pispas, P. Zoumpoulakis, G. Heropoulos, and E.D. Chrysina*,

- Smart and Green Interfaces Conference 2016, Athens, Greece; May 4-6, 2016 (poster).
59. “Block copolymer nanostructures for gene delivery”,
S. Pispas,
Hellenic Biomaterials Society Meeting, Athens, Greece; November 18, 2016 (invited lecture).
60. “Block polyelectrolyte nanostructures”,
S. Pispas,
Symposium on Current Trends and Perspectives in Organic Materials and Processes for high performance organic electronic applications, Athens, Greece; May 11, 2016 (invited lecture).
61. “Power-law viscoelasticity and hierarchical morphology in the polysaccharide xanthan”,
A. Papagiannopoulos*, K. Sotiropoulos, and A. Radulescu,
11th Hellenic Polymer Society International Conference, Heraklion, Greece; November 3-5, 2016 (oral).
62. “Laser processing of micro/nanodevices”,
M. Kandyla,
1st Panhellenic Conference on Photonics, Athens, Greece; May 16-17, 2016 (invited talk).
63. “Optical point spread function as a method for measuring CMOS image sensor performance”,
V. E. Gavriil*, E. Sarantopoulou, Z. Kollia and A. C. Cefalas,
6th International Conference on Materials and Applications for Sensors and Transducers (6th IC-MAST), NHRF, Athens, Greece; September 27-30, 2016 (oral).
64. “Testing dynamic operation of image sensor with Nd:YAG ps laser at 532nm”,
V.E. Gavriil*, E. Sarantopoulou, Z. Kollia and A. C. Cefalas,
8th Mediterranean Conference on Nano-Photonics (8-Medinano), NHRF, Athens, Greece; June 29-30, 2016 (poster).
65. “Photonics for Nano-applications at TPCI/NHRF”,
A. C. Cefalas,
8th Mediterranean Conference on Nano-Photonics (8-Medinano), NHRF, Athens, Greece; June 29-30, 2016 (oral).
66. “Current stability in amorphous 2-D structures”,
A. C. Cefalas*, Z. Kollia, E. Sarantopoulou, and V.E. Gavriil,
6th International Conference on Materials and Applications for Sensors and Transducers IC-MUST, NHRF, Athens, Greece; September 27-30, 2016 (oral).
67. “Optical point spread function evaluates CMOS image sensor performance”,
V. E. Gavriil*, E. Sarantopoulou, Z. Kollia, and A.C. Cefalas,
EDA Workshop “Sensor Payload Workshop for small UAV”, EDA Brussels, Belgium (European Defence Agency); April 13-14, 2016 (oral).

68. “Ponderomotor forces impact on properties of UV solid-state laser”,
V.V. Semashko*, O.R. Akhtyamov, A.S. Nizamutdiniov, M.A. Marisov, E. Sarantopoulou, and A.C. Cefalas,
International Conference on Coherent and Nonlinear Optics (ICONO 2016) & International Conference on Lasers, Applications, and Technologies (LAT 2016), Minsk, Belarus; September 26-30, 2016 (oral).
69. “Ponderomotor forces impact on the properties of UV solid-state laser”,
V.V. Semashko*, O.R. Akhtyamov, A.S. Nizamutdiniov, E. Sarantopoulou and A.C. Cefalas,
19th International Conference on Dynamical Processes in Excited States of Solids (DPC’16), Paris, France; July 17-22, 2016 (oral).
70. “Interplanetary survival probability of filamentous fungi under ground and space conditions”,
E. Sarantopoulou, A. Stefi, N. Spyropoulos –Antonakakis, Z. Kollia, A.C. Cefalas*,
ESA-PRODEX Workshop, Athens, Greece, July 13, 2016 (oral).
71. “Optical properties and fabrication of silica nanowires with a high-index highly nonlinear glass thin coating,”
G. Antonopoulos*, C. Riziotis, and G. Kakarantzas
Medinano-8, 8th Mediterranean Conference on Nano-Photonics, Athens, Greece; June 29-30, 2016 (oral).
72. “Silica nanowires with a highly nonlinear glass thin coating for flat extra-wide supercontinuum generation”,
G. Antonopoulos*, C. Riziotis, and G. Kakarantzas,
XXXII Panhellenic Conference on Solid State Physics and Materials Science, Ioannina, Greece; 18-22 September, 2016 (oral).
73. “Engineering of composite metallic microfibers towards development of plasmonic devices for sensing applications,”
A. Petropoulou*, G. Antonopoulos, G. Kakarantzas, C. Riziotis, D.W. Hewak, and M.N. Zervas,
Medinano-8, 8th Mediterranean Conference on Nano-Photonics, Athens, Greece; June 29-30, 2016 (poster).
74. “Robust plasmonic tips fabricated by the tapering of composite hybrid silicate microfibers with metallic core”,
A. Petropoulou, G. Antonopoulos, P. Bastock, C. Craig, G. Kakarantzas, D.W. Hewak, M.N. Zervas and C. Riziotis*,
SPIE COS Photonics Asia, Beijing, China; October 12-14, 2016 (invited).
75. “Amphiphilic block copolymer based photonic platform towards efficient protein detection”,
A. Petropoulou, T.J. Gibson, E. Themistou, S. Pispas, and C. Riziotis*,
SPIE COS Photonics Asia, Beijing, China; October 12-14, 2016 (Oral).

76. “Optimized design of metal coated optical fiber tips with embedded plasmonic slot nano-resonators for maximum field enhancement”,
A. Petropoulou, M.N. Zervas, and C. Riziotis*,
SPIE COS Photonics Asia, Beijing, China; October 12-14, 2016 (poster).

77. “Grid-based visual aid for enhanced microscopy screening in diagnostic cytopathology”,
C. Riziotis* and E. Tsiambas,
SPIE COS Photonics Asia, Beijing, China; October 12-14, 2016 (poster).

7. Popular Conference Presentations

1. “The art of fraud and trolling in Science”,
I.S.K. Kerkines,
Athens Science Festival 2016, Athens, Greece; April 7, 2016 (invited talk).

2. “Combat with entropy. A fight to survive in our complex world equipped with logic and cybernetic concepts”,
I.D. Petsalakis,
The Hub Events, Athens, Greece; January 11, 2016 (invited talk).
This talk is on Bodossakis Lectures on demand:
<http://www.blod.gr/lectures/Pages/viewlecture.aspx?LectureID=2521>