TPCI (ΙΘΦΧ) 2018

1. Papers in Refereed Journals

1. "Energy transfer and charge separation dynamics in photoexcited pyrene–bodipy molecular dyads",
M. Fakis, J.S. Beckwith, K. Seintis, E. Martinou, C. Nançoz, N. Karakostas, I.D. Petsalakis, G. Pistolis, and E. Vauthey,
Phys. Chem. Chem. Phys. 20, 837 (2018).
DOI: 10.1039/c7cp06914f

2. "Theoretical study on perylene derivatives as fluorescent sensors for amines",
N.N. Lathiotakis, I.S. Kerkines, G. Theodorakopoulos, and I.D. Petsalakis,
Chem. Phys. Lett. 691, 388 (2018).
DOI: 10.1016/j.cplett.2017.11.046

3. "Asymmetric binding of symmetric guests in a water-soluble cavitand",
Y. Yu, K. Zhang, I.D. Petsalakis, G. Theodorakopoulos, and J. Rebek Jr,
Supramol. Chem. 30, 473 (2018).
DOI: 10.1080/10610278.2017.1422868

4. "Engineering of porphyrin molecules for use as effective cathode interfacial modifiers in organic solar cells of enhanced efficiency and stability",
M. Tountas, A. Verykios, E. Polydorou, A. Kaltzoglou, A. Soultati, N. Balis, P.A. Angaridis, M. Papadakis, V. Nikolaou, F. Auras, L.C. Palilis, D. Tsikritzis, E.K. Evangelou, S. Gardelis, M. Koutsoureli, G. Papaioannou**,** I.D. Petsalakis, S. Kennou, D. Davazoglou, P. Argitis, P. Falaras, A. G. Coutsolelos, and M. Vasilopoulou,
ACS Appl. Mater. Interfaces 10, 20728 (2018).
DOI: 10.1021/acsami.8b03061

5. "Functionalized zinc porphyrins with various peripheral groups for interfacial electron injection barrier control in organic light emitting diodes",
A. Verykios, M. Papadakis, A. Soultati, M.-C. Skoulikidou, G. Papaioannou, S. Gardelis, I.D. Petsalakis, G. Theodorakopoulos, V. Petropoulos, L.C. Palilis, M. Fakis, N.A. Vainos, D. Alexandropoulos, D. Davazoglou, G. Pistolis, P. Argitis, A.G. Coutsolelos, and M. Vasilopoulou,
ACS Omega 3, 10008 (2018).
DOI: 10.1021/acsomega.8b01503

6. "Naphthalene peri annelated N,N- and N,O-heterocycles: The effect of heteroatom-guided peri-fusion on their structure and reactivity profiles -A theoretical endoscopy",
D. Tzeli, P. Kozielewicz, M. Zloh, D. Antonow , P. G. Tsoungas, and I. D. Petsalakis,
Chemistry Select 3, 9743 (2018).
DOI: 10.1002/slct.201801627

7. "Cavitands as containers for α, ω-dienes and chaperones for olefin metathesis",

N.-W. Wu, I.D. Petsalakis, G. Theodorakopoulos, Y. Yu, and J. Rebek Jr,
Angew. Chem. Int. Ed. 57, 15091, (2018)
DOI: 10.1002/anie.201808265

8. "A torsional potential for graphene derived from fitting to DFT results",
G.D. Chatzidakis, G. Kalosakas, Z.G. Fthenakis, and N.N. Lathiotakis,
Eur. Phys. J. B, 91, 11 (2018).
DOI: 10.1140/epjb/e2017-80444-5

9. "Structure of the first order reduced density matrix in three electron systems: A generalized Pauli constraints assisted study",
I. Theophilou, N.N. Lathiotakis, and N. Helbig,
J. Chem. Phys. 148, 114108 (2018).
DOI:10.1063/1.5020978

10. "Performance of the constrained minimization of the total energy in density functional approximations: the electron repulsion density and potential",
T. Pitts, N.I. Gidopoulos, and N.N. Lathiotakis,
Eur. Phys. J. B, 91, 130 (2018).
DOI:10.1140/epjb/e2018-90123-8

11. "The activation of carbon dioxide by first row transition metals (Sc – Zn)",
K. Blaziak, D. Tzeli, S.S. Xantheas, and E. Uggerud,
Phys. Chem. Chem. Phys. 20, 25495 (2018).
DOI:10.1039/C8CP04231D

12. "Melting transition of oriented DNA fibers submerged in polyethylene glycol solutions studied by neutron scattering and calorimetry",
A. Gonzalez, A. Wildes, M. Marty-Roda, S. Cuesta-Lopez, E. Mossou, A. Studer, B. Deme, G. Moiroux, J-L Garden, N. Theodorakopoulos, and M. Peyrard,
J. Phys. Chem. B 122, 2504 (2018).
DOI: 10.1021/acs.jpcb.7b11608

13. "Kinky DNA in solution: Small angle scattering study of a nucleosome positioning sequence",
T. Schindler, A. Gonzalez, R. Boopathi, M. Marty-Roda, L. Romero-Santacreu, A. Wildes, L. Porcar, A. Martel, N. Theodorakopoulos, S. Cuesta-Lopez, D. Angelov, T. Unruh, and M. Peyrard,
Phys. Rev. E 98, 042417 (2018).
DOI:10.1103/PhysRevE.98.042017

14. "Attosecond-resolved electron dynamics in many-electron atoms: Quantitative theory and comparison with measurements",
C.A. Nicolaides,
Appl. Sci. 8, 533 (2018).
https://doi.org/10.3390/app8040533

15. “Discrete-resonance-resonance transitions, induced by two pulses with ultrashort time delay: Formal analytic solution and quantitative applications”,
Y. Komninos, Th. Mercouris, and C.A. Nicolaides,
Phys. Rev. A 98, 023428 (2018).
https://doi.org/10.1103/PhysRevA.98.023428

16. “Mixed-modifier effect in alkaline earth metaphosphate glasses”,
K. Griebenow, C.B. Bragatto, E.I. Kamitsos, and L. Wondraczek,
J. Non-Cryst. Solids 481, 447 (2018).
DOI: 10.1016/j.jnoncrysol.2017.11.041

17. “$Ca(OH)_2$ pre-treated bentonite for phosphorus removal and recovery from synthetic and real wastewater”,
G. Markou, D. Mitrogiannis, V.J. Inglezakis, K. Muylaert, N. Koukouzas, N. Tsoukalas, D. Palles, E.I. Kamitsos, and I. Baziotis,
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DOI: 10.1002/clen.201700378

18. “Phosphate recovery from real fresh urine by $Ca(OH)_2$ treated natural zeolite”,
D. Mitrogiannis, M. Psychoyou, N. Koukouzas, N. Tsoukalas, D. Palles, E.I. Kamitsos, A. Pantazidis, G. Oikonomou, and I. Baziotis,
Chem. Eng. J. 347, 618 (2018).
DOI: 10.1016/j.cej.2018.04.102

19. “Influence of synthesis conditions on glass formation, structure and thermal properties in the Na_2O-CaO-P_2O_5 system doped with Si_3N_4 and Mg”,
N.A. Wójcik, B. Jonson, D. Möncke, D. Palles, E.I. Kamitsos, E. Ghassemali, S. Seifeddine, M. Eriksson, and S. Ali,
J. Non-Cryst. Solids 494, 66 (2018).
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20. “Femtosecond laser-induced transformations in ultra-low expansion glass: microstructure and local density variations by vibrational spectroscopy”,
I. Efthimiopoulos, D. Palles, S. Richter, U. Hoppe, D. Möncke, L. Wondraczek, S. Nolte, and E.I. Kamitsos,
J. Appl. Phys. 123, 233105 (2018).
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21. “Structural studies of $NaPO_3$-AlF_3 glasses by high-resolution double-resonance nuclear magnetic resonance spectroscopy”,
H. Bradtmüller, L. Zhang, C.C. de Araujo, H. Eckert, D. Möncke, and D. Ehrt,
J. Phys. Chem. C 122, 21579 (2018).
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22. “Copper-based opaque red glasses - Understanding the colouring mechanism of copper nanoparticles in archaeological glass samples”,

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Opt. Mater. 76, 375 (2018).
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23. "Ancient Roman nano-technology: Insight into the manufacture of mosaic *tesserae* opacified by calcium antimonate",
F. Drünert, E. Palamara, N. Zacharias, L. Wondraczek, and D. Möncke,
J. Eur. Ceram. Soc. 38, 4799 (2018).
DOI: 10.1016/j.jeurceramsoc.2018.06.031

24. "Electrical properties of Na_2O-CaO-P_2O_5 glasses doped with SiO_2 and Si_3N_4",
N.A. Wójcik, B. Jonson, R.J. Barczyński, P. Kupracz, D. Möncke, and S. Ali,
Solid State Ionics 325, 157 (2018).
DOI: 10.1016/j.ssi.2018.08.011

25. "Long-term stability of laser-induced defects in (fluoride-)phosphate glasses doped with W, Mo, Ta, Nb and Zr ions",
D. Möncke, J. Jiusti, L.D. Silvas, and A.C.M. Rodrigues,
J. Non-Cryst. Solids 498, 401 (2018).
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26. "Smectite in bentonite: Near infrared systematics and estimation of layer charge",
C. Tsiantos, V. Gionis, and G.D. Chryssikos,
Appl. Clay Sci. 160, 81 (2018).
DOI: 10.1016/j.clay.2018.01.022

27. "The nature of laponite: Pure hectorite or a mixture of different trioctahedral phases?",
G.E. Christidis, C. Aldana, G.D. Chryssikos, V. Gionis, H. Kalo, M. Stöter, J. Breu, and J.L. Robert,
Minerals 8, 314 (2018).
DOI: 10.3390/min8080314

28. "The charge of wettable illite-smectite surfaces measured with the O-D method",
A. Kuligiewicz, A. Derkowski, J. Srodon, V. Gionis, and G.D. Chryssikos,
Appl. Clay Sci. 161, 354 (2018).
DOI: 10.1016/j.clay.2018.05.003

29. "Physical properties of copper oxide thin films prepared by sol-gel spin-coating method",
M. Dhaouadi, M. Jlassi, I. Sta, I. Ben Miled, G. Mousdis, M. Kompitsas, and W. Dimassi,
Am. J. Phys. Appl. 6, 43 (2018).
DOI: 10.11648/j.ajpa.20180602.13

30. "Influence of In-doping on microstructure, optical and electrical properties of sol-gel derived CdO thin films",
I. Ben Miled, M. Jlassi, I. Sta, M. Dhaouadi, M. Hajji, G. Mousdis, M. Kompitsas, and H. Ezzaouia,

J. Mater. Sci. Mater. Electron. 29, 11286 (2018).
DOI: 10.1007/s10854-018-9216-8

31. "Feasibility assessment of synchronous fluorescence spectral fusion by application to Argan oil for adulteration analysis",
T.D. Stokes, F. Mellou, B. Brownfield, J.H. Kalivas, G. Mousdis, A. Amine, and C. Georgiou,
Appl. Spectrosc. 72, 432 (2018).
DOI: 10.1177/0003702817749232

32. "Synthesis and characterization of new organic-inorganic hybrid compounds based on Sb, with a perovskite like structure",
G.C. Anyfantis, N.-M. Ganotopoulos, A. Savvidou, C.P. Raptopoulou, V. Psycharis, and G.A. Mousdis,
Polyhedron 151, 299 (2018).
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33. "Photocatalytic properties of titanium dioxide thin films doped with noble metals (Ag, Au, Pd, and Pt)",
C. Moslah, M. Kandyla, G.A. Mousdis, G. Petropoulou, and M. Ksibi,
Phys. Status Solidi A 215, 1800023 (2018).
DOI: 10.1002/pssa.201800023

34. "Ultra-long 20 milliseconds charge separation lifetime for photoilluminated oligophenylenevinylene-azafullerene systems",
G. Rotas, K. Stranius, N. Tkachenko, and N. Tagmatarchis,
Adv. Funct. Mater. 28, 1702278 (2018).
DOI: 10.1002/adfm.201702278

35. "Conjugated polymer nanoparticles – graphene oxide charge-transfer complexes",
E. Istif, J. Hernandez-Ferrer, E. Urriolabeitia, A. Stergiou, N. Tagmatarchis, G. Fratta, M.J. Large, A.B. Dalton, A.M. Benito, and W.K. Maser,
Adv. Funct. Mater. 28, 1707548 (2018).
DOI: 10.1002/adfm.201707548

36. "Electronic communication between two [10]cycloparaphenylenes and bisazafullerene $(C_{59}N)_2$ induced by cooperative complexation",
J. Rio, S. Beeck, G. Rotas, S. Ahles, D. Jacquemin, N. Tagmatarchis, C. Ewels, and H.A. Wegner,
Angew. Chem. Int. Ed. 57, 6930 (2018).
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37. "Electronic interactions in illuminated carbon dot/MoS_2 ensembles and electrocatalytic activity towards hydrogen evolution",
R. Canton-Vitoria, L. Vallan, E. Urriolabeitia, A.M. Benito, W.K. Maser, and N. Tagmatarchis,
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DOI: 10.1002/chem.201801425

38. “Electrostatic association of ammonium-functionalized layered-transition-metal dichalcogenides with an anionic porphyrin”,
R. Canton-Vitoria, C. Stangel, and N. Tagmatarchis,
ACS Appl. Mater. Interfaces 10, 23476 (2018).
DOI: 10.1021/acsami.8b08272

39. “Nitrogen-doped silver-nanoparticle-decorated transition-metal dichalcogenides as surface-enhanced Raman scattering substrates for sensing polycyclic aromatic hydrocarbons”,
M.A. Koklioti, C. Bittencourt, X. Noirfalise, I. Saucedo-Orozco, M. Quintana, and N. Tagmatarchis,
ACS Appl. Nano Mater. 1, 3625 (2018).
DOI: 10.1021/acsanm.8b00747

40. “Interfacing tetrapyridyl-C_{60} with porphyrin dimers via π-conjugated bridges: Artificial photosynthetic systems with ultrafast charge separation”,
C. Stangel, F. Plass, A. Charisiadis, E. Giannoudis, G. Charalambidis, K. Karikis, G. Rotas, G.E. Zervaki, N.N. Lathiotakis, N. Tagmatarchis, A. Kahnt, and A.G. Coutsolelos,
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D.K. Perivoliotis, Y. Sato, K. Suenaga, and N. Tagmatarchis,
ACS Appl. Energy Mater. 1, 3869 (2018).
DOI: 10.1021/acsaem.8b00631

42. “Supramolecular-enhanced charge-transfer within entangled polyamide chains as origin of the universal blue fluorescence of polymer carbon dots”,
L. Vallan, E.P. Urriolabeitia, F. Ruiperez, J. Mattin Matxain, R. Canton-Vitoria, N. Tagmatarchis, A.M. Benito, and W.K. Maser,
J. Am. Chem. Soc. 140, 12862 (2018).
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L. Vallan, R. Canton-Vitoria, H.B. Gobeze, Y. Jang, R. Arenal, A.M. Benito, W.K. Maser, F. D’Souza, and N. Tagmatarchis,
J. Am. Chem. Soc. 140, 13488 (2018).
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A. Stergiou and N. Tagmatarchis,
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45. “Effects of subphase pH, temperature and ionic strength on the aggregation behavior of PnBA-b-PAA at the air/water interface”,
Y. Wang, G. Wen, S. Pispas, S. Yang, and K. You,
J. Colloid Interf. Sci. 512, 862 (2018).
DOI: 10.1016/j.jcis.2017.11.002

46. “Thermal response and self-organization in an amphiphilic triblock polyelectrolyte and the influence of the globular protein lysozyme”,
A. Papagiannopoulos, A. Meristoudi, S. Pispas, and U. Keiderling,
Eur. Polym. J. 99, 49 (2018).
DOI: 10.1016/j.eurpolymj.2017.12.005

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A. Skandalis, A. Sergides, A. Bakandritsos, and S. Pispas,
Polymers 10, 14 (2018).
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V. Chrysostomou and S. Pispas,
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49. “Determination of intimate composition of theranostic polyplexes based on (co)polymers of poly(vinyl benzyl trimethylammonium chloride”,
E. Haladjova, G. Mountrichas, S. Pispas, and S. Rangelov,
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A. Papagiannopoulos, J. Zhao, G. Zhang, S. Pispas, and C.J. Jafta,
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51. “Formation of complexes in aqueous solutions of amphiphilic triblock polyelectrolytes of different topologies and an oppositely charged protein”,
A. Papagiannopoulos, M. Karayianni, S. Pispas, and A. Radulescu,
Soft Matter 14, 2826 (2018).
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52. “pH-responsive polymeric nanoassemblies encapsulated into alginate beads: morphological characterization and swelling studies”,
N. Pippa, T. Sentoukas, S. Pispas, C. Demetzos, A. Papalois, and N. Bouropoulos,
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53. "Co-assembly of block copolymers as a tool for developing novel micellar carriers of insulin for controlled drug delivery",
K. Kamenova, E. Haladjova, G. Grancharov, M. Kyulavska, V. Tzankova, D. Aluani, K. Yoncheva, S. Pispas, and P. Petrov,
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A. Katatza and S. Pispas,
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55. "Hydrolyzed poly(2-phenyl-2-oxazoline)s in aqueous media and biological fluids",
E. Vlassi, A. Papagiannopoulos, and S. Pispas,
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56. "Adsorption of lysozyme on pH-responsive PnBA-b-PAA polymeric nanoparticles: studies by stopped-flow SAXS and ITC",
S.K. Filippov, A. Papagiannopoulos, A. Riabtseva, and S. Pispas,
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57. "Studying the colloidal behavior of chimeric liposomes by cryo-TEM, micro-differential scanning calorimetry and high-resolution ultrasound spectroscopy",
N. Pippa, D.R. Perinelli, S. Pispas, G. Bocacucina, C. Demetzos, A. Forys, and B. Trzebicka,
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A. Papagiannopoulos, E. Vlassi, S. Pispas, and J. E. Houston,
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59. "Coassembly of poly(N-isopropylacrylamide) with dodecyl and carboxyl terminal groups with cationic surfactant: critical comparison of experimental and simulation data",
A. Fanova, K. Sindelka, M. Uchman, Z. Limpouchova, S.K. Filippov, S. Pispas, K. Prochazka, and M. Stepanek,
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61. “Formation of core/corona nanoparticles with interpolyelectrolyte complex cores in aqueous solution: insight into chain dynamics in the complex from fluorescence quenching”,
A. Murmiliuk, P. Matejicek, S.K. Filippov, M. Janata, M. Slouf, S. Pispas, and M. Stepanek,
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A. Skandalis and S. Pispas,
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N. Naziris, N. Pippa, D. Stellas, V. Chrysostomou, S. Pispas, C. Demetzos, M. Libera, and B. Trzebicka,
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70. "The indispensable contribution of s38 protein to ovarian-eggshell morphogenesis in Drosophila melanogaster."
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2. Papers in Proceedings of International and National Conferences

1. "$NaPO_3$-AlF_3 glasses: fluorine evaporation during melting and the resulting variations in structure and properties",
D. Möncke, M. da Cruz Barbosa Neto, H. Bradtmüller, G.B. de Souza, A.M. Rodrigues, H.S. Elkholy, H.A. Othman, B.A.J. Moulton, E.I. Kamitsos, A.C.M. Rodrigues, and D. Ehrt,
Proc. Seventh Balkan Conference on Glass Science & Technology and 19th Conference on Glass and Ceramics, Nessebar, Bulgaria; October 1-4, 2017.
Journal of Chemical Technology and Metallurgy 53 (6), 1047-1060 (2018).
http://dl.uctm.edu/journal/node/j2018-6/4_17-206_p_1047-1060.pdf

3. Book Chapters

1. "Photocatalytic properties of TiO_2 thin films doped with noble metals (Ag, Au, Pd and Pt) for water decontamination",
C. Moslah, G.A. Mousdis, M. Kandyla, G. Petropoulou, and M. Ksibi,
NATO Science for Peace and Security Series A: Chemistry and Biology, Nanostructured Materials for the Detection of CBRN, J. Bonca and S. Kruchinin (Eds.), Springer, Dordrecht, The Netherlands; 2018, Chapter 6, pp. 71-89. ISBN: 978-9402413038
DOI: 10.1007/978-94-024-1304-5_6

2. "Metal nanoclusters for biosensing and drug delivery applications",
M.A. Koklioti and N. Tagmatarchis,
Drug Delivery Nanosystems: From Bioinspiration and Biomimetics to Clinical Applications, C. Demetzos, S. Pispas, N. Pippa (Eds.), Pan Stanford Publishing, Singapore; 2018, Chapter 7, pp. 223-242. ISBN: 978-0-429-49054-5

3. "Recent advances in micellar-like polyelectrolyte/protein complexes: Design and development of biopharmaceutical vehicles",
N. Pippa, S. Pispas, and C. Demetzos,
Design and Development of New Nanocarriers, A.M. Grumezescu (Ed.), Elsevier Inc., UK; 2018, Chapter 2, pp. 57-88. ISBN: 978-0-12-813627-0

4. "Applications of particle tracking microscopy methods on biomaterials research",

A. Papagiannopoulos,
Microscopy Science: Last Approaches on Educational Programs and Applied Research, E. Torres-Hergueta and A. Méndez-Vilas (Eds.), Formatex, Spain; 2018, Chapter 2, pp. 9-16.
ISBN: 978-84-947512-3-3

5. "Optical spectroscopies",
D. Möncke,
The Encyclopedia of Archaeological Sciences. Edited by S.L. López Varela, John Wiley & Sons, Inc. pp. 1-7 (2018). https://onlinelibrary.wiley.com/doi/abs/10.1002/9781119188230.saseas0423

6. "Glass color",
D. Möncke,
The Encyclopedia of Archaeological Sciences. Edited by S.L. López Varela, John Wiley & Sons, Inc. pp. 1-3 (2018). https://onlinelibrary.wiley.com/doi/abs/10.1002/9781119188230.saseas0265

4. Books Editing

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5. Patents

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6. Publications in Technical Journals / Miscellaneous Publications

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7. Dissertations

a. PhD theses

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b. MSc theses

1. "Amphiphilic P(DMAEMA-co-LMA)-b-POEGMA and QP(DMAEMA-co-LMA)-b-POEGMA block copolymers: Synthesis, characterization, self-assembly in aqueous solutions, complexation with DNA and drug encapsulation",
M. Kafetzi,
Supervisor: Dr. S. Pispas, National and Kapodistrian University of Athens, Department of Chemistry (2018).

2. "Thermoresponsive PNIPAM-b-POEGA block copolymers: Synthesis, characterization, solution properties and ability of encapsulating hydrophobic compounds within the nanostructures",
D. Giaouzi,
Supervisor: Dr. S. Pispas, National and Kapodistrian University of Athens, Department of Chemistry (2018).

c. Honors theses

1. "Synthesis, NMR and computational study of MYC3 and its derivatives",
D. Mamalis,
Supervisors: Prof. A. Tsekouras (Physical Chemistry Lab, Dept of Chemistry, NKUA), B. Vidali (supervisor of the experimental section, INN, Demokritos, Greece), and Dr. D. Tzeli (supervisor of the theoretical section, TPCI/NHRF, Greece) (2018).

2. "Kinetic study of the intercalation of NMF in kaolinite by vibrational spectroscopy",
F. Andreou,
Supervisors: Dr. G.D. Chryssikos and Prof. I. Raptis, National Technical University of Athens, School of Applied Mathematical and Physical Sciences (2018).

3. "Industrial application of infrared spectroscopy",
S. Vovla,
Supervisor: Dr. G.D. Chryssikos, National Technical University of Athens, School of Applied Mathematical and Physical Sciences (2018).

4. "Development of nanostructured optoelectronic devices",
K. Nikolaidou,
Supervisors: Dr. Maria Kandyla and Prof. S. Gardelis, National and Kapodistrian University of Athens, Department of Physics (2018).

8. Conference Presentations

1. "Generalized Mulliken's formula for photoinduced electron transfer processes",
N. N Lathiotakis*, I. D. Petsalakis, and G. Theodorakopoulos,
Energy Materials and Nanotechnology (EMN) 2018, Heraklion-Crete, Greece, 4-18/5/2018 (invited talk).

2. "Photoinduced charge-transfer in tertiary amine-fluorophore systems",
D. Tzeli, Member of Scientific Committee of the Conference, 1st International Symposium on Quantum Science and Technology Aberdeen, UK, 24-27/6/2018 (poster).

3. "Computational-Theoretical Chemistry: From diatomic molecules to supermolecular systems and materials",
D. Tzeli, Theoretical Physical Chemistry / Theoretical Material Science Symposium, TPCI/NHRF, Athens, Greece, 28/6/201 (oral).

4. "Making molecular logic gates and sensors by inducing photophysical processes",
D. Tzeli, Energy Landscapes 2018, Kalamata, Greece, 2-9/9/2018 (oral).

5. "VI-SEEM NAT-GR LS+: 2018 NWChem Workshop",
D. Tzeli, Organizing Committee, Athens, Greece, 10-11/9/2018.

6. “Molecular logic gates and sensors”,
D. Tzeli, Athens Conference on Advances in Chemistry (acac2018), National and Kapodistrian University of Athens, Athens, Greece, 30/10-2/11/2018 (oral)

7. “Investigation of strength - structure relationship in the glass system M_2O-SiO_2-B_2O_3 by Raman spectroscopy”,
M. Seibt*, T. Uesbeck, D. Möncke, K. Dunst, and D. de Ligny,
Joint Meeting DGG & CSS & Slovakia, Bayreuth, Germany; 28-30 May 2018 (poster).

8. “Structure and in vitro dissolution of ternary K_2O-CaO-B_2O_3 bioactive borate glasses”,
N. Sawangboon*, J. Heier, D.A. Avila Salazar, D. Möncke, and D.S. Brauer,
Joint Meeting DGG & CSS & Slovakia, Bayreuth, Germany; 28-30 May 2018 (oral).

9. “Glass production technology based on TEM/3D-ATM and laboratory simulation experiments: an application on Roman mosaic tesserae”,
N. Zacharias*, P. Das, F. Drünert, D. Möncke, and S. Nicolopoulos,
International Symposium of Archaeometry (ISA2018), Mérida, Mexico; 20-26 May, (oral).

10. “Thermal, mechanical and structural properties of tellurite glasses”,
N.S. Tagiara, E. Moayedi, A. Kyritsis, L. Wondraczek, and E.I. Kamitsos*,
15th International Conference on the Physics of Non-Crystalline Solids & 14th Conference of the European Society of Glass (PNCS/ESG2018), St. Malo, France; 9-13 July 2018 (oral).

11. “Viscosity of TeO_2-based glasses”,
N.S. Tagiara*, D.R Neuville, A. Kyritsis, and E.I. Kamitsos,
15th International Conference on the Physics of Non-Crystalline Solids & 14th Conference of the European Society of Glass (PNCS/ESG2018), St. Malo, France; 9-13 July 2018 (poster).

12. “Structural investigation of M_2O-SiO_2-B_2O_3-Al_2O_3 glasses by Raman spectroscopy and the influence of thermal history”,
T. Uesbeck*, M. Seibt, D. Möncke, K. Dunst, S. Bruns, and D. de Ligny,
15th International Conference on the Physics of Non-Crystalline Solids & 14th Conference of the European Society of Glass (PNCS/ESG2018), St. Malo, France; 9-13 July 2018 (oral).

13. “IR and Raman study of oxy-nitride glasses”,
D. Möncke*, S. Ali, N.A. Wójcik, D. Palles, E.I. Kamitsos, and B. Jonson,
Society of Glass Technology Annual Meeting (SGT 2018), Cambridge, UK; 3-5 Sept. 2018 (oral).

14. “Surface-enhanced Raman spectroscopy of graphene integrated in plasmonic silicon nanostructures”,
M. Kanidi*, A. Dagkli, M. Kandyla, N. Kelaidis, D. Palles, A. Colli, E. Lidorikis, S. Aminalragia-Giamini, J. Marquez-Velasco, A. Dimoulas, and E.I. Kamitsos,
XXXIII Panhellenic Conference on Solid State Physics and Materials Science, Nicosia, Cyprus; 17-19 September 2018 (oral).

15. “Structure property correlations in glasses beyond the covalent network - an IR and Raman spectroscopic study”,
D. Möncke*, E.I. Kamitsos, N.A. Wójcik, S. Ali, and B. Jonson,
International Commission on Glass Annual Meeting (ICG 2018), Yokohama, Japan; 23-26 September 2018 (invited talk).

16. “Archaeometric evidence for glass melting in Sweden in the mid-13th century”,
B. Jonson, A. Ihr, and D. Möncke*,
Society of Glass Technology Annual Meeting (SGT 2018), Cambridge, UK; 3-5 Sept. 2018 (oral).

17. “Fluoride loss in fluoride-phosphate glasses: dependence of composition and glass structure on preparation conditions”,
D. Möncke*, D. Ehrt, E.I. Kamitsos et. al.
7th International Congress on Ceramics (ICC7), 17-21 June 2018, Iguacu, Brazil (member of the Organizational Committee Glass Technology) (oral).

18. “Long-term stability of irradiation induced defects in polyvalent ion doped in FP glasses”,
D. Möncke*,
American Ceramic Society - Glass Optical Materials Division - Annual Meeting (ACerS GOMD 2018), San Antonio, Texas, USA; 20-24 May 2018 (oral).

19. “Comparing the effectiveness of Fe-Mg clays in removing Pb and Cu from Aqueous solutions under static and dynamic sorption conditions”,
Z. Kypritidou*, A. Argyraki, G.D. Chryssikos, and M. Stamatakis,
Athens Conference on Advances in Chemistry (ACAC 2018), Athens, Greece; Oct. 30 - Nov. 2 2018 (oral).

20. “H_2O as a structural probe of mineral surfaces and reactions thereon”,
G.D. Chryssikos,
Athens Conference on Advances in Chemistry (ACAC 2018), Athens, Greece; Oct. 30 - Nov. 2 2018 (invited lecture).

21. “Polarity of illite-smectite fundamental particles revisited: New evidence from vibrational spectroscopy measurements”,
A. Kuligiewicz*, A. Derkowski, J. Środoń, V. Gionis, and G.D. Chryssikos,
55th CMS Annual Meeting, Univ. of Illinois, Urbana-Champaign, USA; June 11-14, 2018 (oral).

22. “Carbon monoxide and methane sensing by a CuO electrochemical thin film sensor deposited on a Pyrex tube by PLD”,
P. Koralli, G. Petropoulou, G. Mousdis, and M. Kompitsas*,
7th International Symposium for Transparent Conductive Materials, Chania, Greece; 15-19 October 2018 (poster).

23. “Efficient acetone sensing by a CuO electrochemical thin film sensor deposited on a Pyrex tube by PLD”,
M. Kompitsas*, P. Koralli, G. Petropoulou, and G. Mousdis,

7th International Symposium for Transparent Conductive Materials, Chania, Greece; 15-19 October 2018 (oral).

24. "Efficient hexane sensing by a Fe_2O_3 electrochemical thin film sensor deposited on a Pyrex tube by PLD",
P. Koralli*, M. Kompitsas and G. Mousdis,
13th International Scientific Conference "ERA 2018", Athens, Greece; 21-23 Nov. 2018 (oral).

25. "Sensing characteristics of CuO and CuO:Au thin films deposited by Pulsed Laser Deposition method onto Pyrex tubes",
P. Koralli*, G. Petropoulou, M. Kompitsas, and G. Mousdis,
COST TO-BE Spring Meeting, Sant Feliu, Spain; 12-14 March 2018 (poster).

26. "Photocatalytic properties of TiO_2 thin films doped with noble metals (Ag, Au, Pd and Pt)",
G. Petropoulou*, C. Moslah, M. Kandyla, M. M. Islam, M. Ksibi and G.A. Mousdis,
COST TO-BE Spring Meeting, Sant Feliu, Spain; 12-14 March 2018 (poster).

27. "Structural relations in hybrid organic-inorganic halide perovskites and the role of hydrogen bonds",
V. Psycharis*, A. Savvidou, C.P. Raptopoulou, A. Terzis, G. Mousdis, A. Kaltzogoua, and P. Falaras, 8th North America-Greece-Cyprus Workshop on Paramagnetic Materials: NAGC 2018, Sparta, Greece; 18-22 June 2018 (oral).

28. "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, ICIEM 2018, International Conference on Integrated Environmental Management for Sustainable Development, Sousse, Tunisia; 2-5 May 2018 (poster).

29. "New avenues in the chemistry and applications of fullerenes and two-dimensional materials: Azafullerenes and layered transition metal dichalcogenides",
N. Tagmatarchis,
Frontiers in Chemistry of Molecular Materials, International Workshop Series IMDEA Nanociencia, Madrid, Spain; March 6-7, 2018 (invited talk).

30. "Educational chemistry game: ChemiProject. Enjoy, play and learn!",
R. Canton-Vitoria* and N. Tagmatarchis,
Euroscience Open Forum – ESOF 2018, Toulouse, France; July 9-14, 2018 (poster).

31. "Covalent 1,2-dithiolane functionalization of layered transition metal dichalcogenides",
R. Canton-Vitoria* and N. Tagmatarchis,
NanoteC18 – Carbon Nanoscience and Nanotechnology, Brighton, United Kingdom; August 29-September 1, 2018 (oral).

32. "Molybdenum disulfide as surface enhanced Raman scattering substrates for sensing polycyclic aromatic hydrocarbons",

C. Bittencourt*, M.A. Koklioti, X. Noirfalise, I. Saucedo, M. Quintana, and N. Tagmatarchis, Recent Progress in Graphene & 2D Materials Research, Guilin, China; October 22-25, 2018 (oral).

33. "Electron beam-mediated atomic scale growth of graphene nanorribons encapsulated into SWNTs",
M. Pelaez-Fernandez*, A. Stergiou, N. Tagmatarchis, and R. Arenal,
Materiaux-2018, Strasbourg, France; November 19-23, 2018 (poster).

34. "Triblock terpolymers by RAFT polymerization: synthesis and self-assembly",
S. Pispas*, 12th Hellenic Polymer Society International Conference, Ioannina, Greece; September 30-October 3, 2018 (invited talk).

35. "Development of nanocarriers for nutraceutical substances by polysaccharide/protein complexation and temperature-induced protein denaturation",
A. Papagiannopoulos* and E. Vlassi, 12th Hellenic Polymer Society International Conference, Ioannina, Greece; September 30-October 3, 2018 (oral).

36. "PnBA-b-PNIPAM-b-PDMAEA pH- and thermo- responsive triblock terpolymers via RAFT polymerization and their properties in aqueous solutions",
A. Skandalis* and S. Pispas, 12th Hellenic Polymer Society International Conference, Ioannina, Greece; September 30-October 3, 2018 (poster).

37. "Poly(dimethylaminoethyl methacrylate)-*b*-poly(hydroxypropyl methacrylate) copolymers: Synthesis and pH/thermo-responsive behavior in aqueous solutions",
T. Sentoukas* and S. Pispas, 12th Hellenic Polymer Society International Conference, Ioannina, Greece; September 30-October 3, 2018 (poster).

38. "RAFT synthesis and self-assembly of amphiphilic block copolymers based on poly(n-butyl acrylate)",
A. Chroni* and S. Pispas, 12th Hellenic Polymer Society International Conference, Ioannina, Greece; September 30-October 3, 2018 (poster).

39. "Morphology of thermoresponsive molecular brushes with copolymer side arms in dilute aqueous solutions",
J. J. Kang*, J. Zhao, H. Frielinghaus, L. Barnsley, S. Pispas, and C. M. Papadakis,
12th Hellenic Polymer Society International Conference, Ioannina, Greece; September 30-October 3, 2018 (poster).

40. "Morphology of amphiphilic molecular brushes in dilute aqueous solutions",
J.J. Kang*, J. Zhao, S. Pispas, and C.M. Papadakis,
2018 DPG Spring Meeting, Berlin, Germany; March 11-16, 2018 (poster).

41. "PLMA-b-POEGMA amphiphilic block copolymers: Synthesis, characterization and properties in aqueous solutions",
A. Skandalis* and S. Pispas,
FEMS Junior EUROMAT 2018, Budapest, Hungary; July 8-12, 2018 (oral).

42. “Nucleic acid therapeutics based on novel PDMAEMA-POEGMA block copolymers”,
R. Shishko*, E. Haladjova, V. Chrysostomou, S. Pispas, and S. Rangelov,
IP-BAS Annual Poster Session for Young Scientists, Sofia, Bulgaria; June 7, 2018 (poster).

43. “Star shaped PDMAEMA polymers as non-viral vectors for gene delivery”,
D. Petrov*, E. Haladjova, A. Skandalis, S. Pispas, and S. Rangelov,
IP-BAS Annual Poster Session for Young Scientists, Sofia, Bulgaria; June 7, 2018 (poster).

44. “PEGylating magnetic nanocrystals clusters through electrostatic interactions”,
A. Kolokithas-Ntoukas*, G. Mountrichas, S. Pispas, R. Zboril, K. Avgoustakis, and A. Bakandritsos, 1st NanoBio-International Conference on Nanotechnologies and Biosciences, Heraklion, Grete, Greece; September 24-28, 2018 (poster).

45. “Linear thermodynamic behavior in complex chimeric nanosystems”,
N. Naziris*, A. Skandalis, S. Pispas, and C. Demetzos,
THERMA 2018, Athens, Greece; October 12-13, 2018 (oral).

46. “Materials’ properties of chimeric liposomes using thermal analysis techniques”,
N. Pippa*, D.R. Perinelli, S. Pispas, G. Bonacucina, and C. Demetzos,
THERMA 2018, Athens, Greece; October 12-13, 2018 (oral).

47. “Thermal characterization of novel block copolymer systems”,
T. Sentoukas*, D. Giaouzi, and S. Pispas, THERMA 2018, Athens, Greece; Oct. 12-13, 2018 (oral).

48. “Poly(dimethylaminoethyl methacrylate)-*b*-poly(hydroxypropyl methacrylate) copolymers: Synthesis and pH/thermo-responsive behavior in aqueous solutions”,
T. Sentoukas* and S. Pispas,
Athens Conference on Advances in Chemistry, Athens, Greece; October 30-Nov. 2, 2018 (oral).

49. “Tunable wettability of thin polymer films”,
M. Kanidi*, A. Papagiannopoulos, A. Skandalis, S. Pispas, and M. Kandyla,
XXXIII Panhellenic Conference on Solid State Physics and Materials Science, Nicosia, Cyprus; 17-19 September, 2018 (poster).

50. “Block copolymer micelles as insulin nanocarriers”,
E. Haladjova, A. Skandalis, P. Petrov, and S. Pispas*,
11th Hellenic Society for Biomaterials Conference, Athens, Greece; November 23-25, 2018 (invited talk).

51. “Using polysaccharide/protein complexation and temperature-induced protein denaturation to develop nanocarriers for bioactive substances”,
A. Papagiannopoulos* and E. Vlassi,
11th Hellenic Society for Biomaterials Conference, Athens, Greece; November 23-25, 2018 (oral).
Best oral presentation award.

52. “Hybrid hydrogels encapsulating pH-responsive nanoparticles”,

N. Pippa*, T. Sentoukas, S. Pispas, C. Demetzos, A. Papalois, and N. Bouropoulos,
11th Hellenic Society for Biomaterials Conference, Athens, Greece; November 23-25, 2018 (oral).

53. "Design and evaluation of lyotropic liquid crystal nanosystems",
M. Choundoulesi*, N. Pippa, S. Pispas, E.D. Chrysina, A. Forys, B. Trzebicka, and C. Demetzos,
11th Hellenic Society for Biomaterials Conference, Athens, Greece; November 23-25, 2018 (oral).

54. "Hydrophobically modified P(DMAEMA-co-QDMAEMA)-b-POEGMA diblock copolymers as nucleic acid nanocarriers",
M. Kafetzi* and S. Pispas, 11th Hellenic Society for Biomaterials Conference, Athens, Greece; November 23-25, 2018 (poster). Best poster award.

55. "Bio-hybrid PDMAEMA-b-PHPMA/BSA nanostructures: behavior in aqueous solutions",
T. Sentoukas* and S. Pispas, 11th Hellenic Society for Biomaterials Conference, Athens, Greece; November 23-25, 2018 (poster).

56. "PnBA-b-PDMAEA copolymers and their complexation with DNA",
A. Chroni* and S. Pispas, 11th Hellenic Society for Biomaterials Conference, Athens, Greece; November 23-25, 2018 (poster).

57. "PNIPAM-b-QPDMAEA copolymers as thermoresponsive nanocarriers for complexation/delivery of nucleic acids",
D. Giaouzi* and S. Pispas, 11th Hellenic Society for Biomaterials Conference, Athens, Greece; November 23-25, 2018 (poster).

58. "Amphiphilic cationic copolymers as gene nanocarriers",
V. Chrysostomou* and S. Pispas, 11th Hellenic Society for Biomaterials Conference, Athens, Greece; November 23-25, 2018 (poster).

59. "Chimeric liposomes composed of lipids and stimuli responsive polymers",
N. Naziris, N. Pippa, V. Chrysostomou, A. Skandalis, S. Pispas, and C. Demetzos,
11th Hellenic Society for Biomaterials Conference, Athens, Greece; Nov. 23-25, 2018 (poster).

60. "Design and characterization of lyotropic liquid crystal nanosystems utilizing novel polymeric stabilizers",
M. Choundoulesi, A. Skandalis, S. Pispas, A. Papalois, and C. Demetzos,
11th Hellenic Society for Biomaterials Conference, Athens, Greece; Nov. 23-25, 2018 (poster).

61. "Effect of ethanol induced denaturation of whey proteins on the formation of cold-set gels and nano-, -micro particles",
T. Moschakis*, A. Nikolaidis, M. Andreadis, A. Papagiannopoulos, and C.G. Biliaderis,
17th Food Colloids Conference: Application of Soft Matter Concepts, Leeds, United Kingdom; April 8-11 2018 (oral).

62. "Enhancement of responsivity of a ZnO/Si heterojunction formed on laser-microstructured Si substrates",

S. Gardelis*, M. Kandyla, K. Nikolaidou, G. Chatzigiannakis, and V. Lykodimos, Micro & Nano 2018 International Conference, Thessaloniki, Greece; 5-7 November 2018 (oral).

63. "Development and applications of laser-processed hybrid nanomaterials",
M. Kandyla,
Hellenic Society for the Science and Technology of Condensed Matter Workshop "Materials at the Nanoscale", Thessaloniki, Greece; 3-4 November 2018 (invited lecture).

64. "Photonic stimulation of cell wall integrity signaling pathway in Ulocladium chartarum at the nanoscale",
E. Sarantopoulou*, Z. Kollia, V. Gavriil, and A.C. Cefalas,
III International Symposium on Nanoparticles/Nanomaterials and Applications, ISN2A 2018, Caparica, Portugal, 22-25 January 2018 (poster).

65. "Mechanical stimulus by rare-earth fluoride nanoparticles promote tumour growth in vitro",
A. C. Cefalas*, M. Pudovkin, A. Ferraro, V. Gavriil, E. Sarantopoulou, P. Zelenikhin, A. Nizamutdinov, Z. Kollia and V. V. Semashko,
III International conference on nanoparticles, nanomaterials and Applications, ISN2A 2018, Caparica, Portugal, 22-25 January, 2018 (oral).

66. "Entropic potentials can be probed by photons",
E. Sarantopoulou, V. Gavriil, Z. Kollia, M. Chatzichristidi, and A.C. Cefalas*,
Entropy 2018: From Physics to Information Sciences and Geometry, Barcelona, Spain, 14–16 May 2018 (poster).

67. "Strong entropic and electric current voupling and surface topology in 2D semiconductors violates translational current homogeneity along opposite conductive paths at the nanoscale",
A.C. Cefalas, E. Sarantopoulou*, V. Gavriil, Z. Kollia, and V.V. Semashko,
Entropy 2018: From Physics to Information Sciences and Geometry, Barcelona, Spain, 14–16 May 2018 (poster).

68. "Small size charged nanoparticles activate tumor cell growth",
V.V. Semashko, M.S. Pudovkin, P.V. Zelenikhin, V.E. Gavriil, A.S. Nizamutdinov, Z. Kollia, A. Ferraro, E. Sarantopoulou, and A.C. Cefalas*,
17th Scientific conference-school, University of Saransk,
Suransk, Mordovia, Russian Federation, 18-21 September 2018 (plenary talk).

69. "2D nano-topology and entropy drives unidirectional electric current stability in nanostructures",
V. Gavriil*, A.C. Cefalas, Z. Kollia, and E. Sarantopoulou,
XXXIII Panhellenic Conference on Solid State Physics and Materials Science, University of Cyprus, Nicosia, Cyprus, 17-19 September 2018 (oral).

70. "Nanoscale surface topology is connected with physical interactions in materials, cells and tissues",

V. E. Gavriil*, D. Christofilos, G. Kourouklis, and E. Sarantopoulou,
AUTh Department of Chemical Engineering workshop: Research in the Department of Chemical Engineering and the role of Chemistry Engineering in Modern Greek Industry, Thessaloniki, Greece, 17 December 2018 (poster).

71. "High power 157 nm laser irradiation of Cladosporium herbarum spores activates cell wall integrity signalling pathways",
V. Gavriil, E. Sarantopoulou, Z. Kollia, and A.C. Cefalas*,
XXII International Symposium on High Power Laser Systems and Applications, Frascati, Italy, 9-12 October 2019 (invited).

72. "Fluorescent polymer-based nanocomposite electrospun fibers as optical sensors for ammonia and pH",
X. Karagiorgis*, A. Petropoulou, I. Savva, C. Riziotis, S. Kralj, and T. Krasia-Christoforou,
XXXIII Panhellenic Conference on Solid State Physics and Materials Science, University of Cyprus, Nicosia, Cyprus, 17-19 September 2018 (poster).

73. "Εφαρμογή καινοτόμου πλέγματος χαρτογράφησης πλακιδίων ανοσοκυτταροχημειαίς στη διερεύνηση της έκφρασης του ογκοκατασταλτικού γονιδίου p16 σε κολποτραχηλικά επιχρίσματα με HPV λοίμωξη",
Ε. Τσιάμπας*, Χρ. Ριζιώτης, Α. Αλεξοπούλου, Γ. Κυρούσης, Α. Μορτάκης, Β. Βηλαράς, Α. Καραμέρης, Α. Μελάς, Ε. Πατσούρης,
27ο Ιατρικό Συνέδριο Ενόπλων Δυνάμεων, Ξενοδοχείο Macedonia Palace, Θεσσαλονίκη, 18-20 Οκτωβρίου 2018 (oral, 1st Prize of Best Oral Presentation).

74. "Development of devices and structures by femtosecond fiber laser based micromachining for sensing and biomedical applications",
C. Riziotis, COST Action MP1401, WG3 Workshop "Applications of fibre lasers in healthcare, life science and conservation of cultural heritage", Polytechnico di Milano, Milan, Italy, 11-12 June 2018 (oral).

9. Popular Conference Presentations

1. "Πειράματα Χημείας με υπολογιστή",
D. Tzeli, Athens Science Festival, Technopolis, Gazi, 24-29/4/2018 (Διαδραστικό Εργαστήριο).

"Γυναίκες στη Επιστήμη: Η εργαζόμενη γυναίκα και μητέρα στο χώρο της επιστήμης",
D. Tzeli, Athens Science Festival, Technopolis, Gazi, 28/4/2018 (invited talk).

3. "Computational Chemistry: Molecular Switches",
D. Tzeli, Anniversary Exhibition «Το Θηλυκό Πρόσωπο της Επιστήμης» ("The female identity of Science"), Celebration for the 20 years of L'ORÉAL-UNESCO for Women in Science program, 20-23/9/2018 (invited talk).

4. "Research in Natural Science",
D. Tzeli, Up Event 2018: Ημέρες Καριέρας, Technopolis, Gazi, 14/10/2018 (invited talk).

5. “The LEGOs of the universe”,
I. D. Petsalakis, Pint of Science, MoMix, Gazi, Athens, 16/10/2018 (invited talk).

6. “Χημικοί αισθητήρες, η μύτη και η γλώσσα της σύγχρονης τεχνολογίας”,
Γ. Α. Μούσδης, Η Φυσική Μαγεύει, Π. Δυτικής Αττικής, Αθήνα; 14-16/12/2018 (ομιλία).

7. “Hearing and sensing with light”,
M. Filograno*, M. Kanidi*, C. Riziotis*, M. Kandyla*, Athens Science Festival, Athens, Greece; 24-29 April 2018 (interactive exhibition).

8. “Optical nanotrapping”,
D. Kotsifaki, P. Lagoudakis, and M. Kandyla, Thessaloniki International Fair, Thessaloniki, Greece; 8-16 September 2018 (video presentation).