

1. Papers in Refereed Journals

1. “Physical insights into molecular sensors, molecular logic gates and on photosensitizers in photodynamic therapy”,
D. Tzeli, I.D. Petsalakis,
J. Chem. 2019, 6793490 (2019).
DOI: [10.1155/2019/6793490](https://doi.org/10.1155/2019/6793490)
2. “Theoretical study of the photophysical processes of a styryl-bodipy derivative eliciting an AND molecular logic gate response”,
D. Tzeli, I.D. Petsalakis, and G. Theodorakopoulos,
Int. J. Quantum Chem. 199, 25958 (2019).
DOI: [10.1002/qua.25958](https://doi.org/10.1002/qua.25958)
3. “Theoretical investigation on the binding of alkyl halides and cyclohexyl halides in water-soluble cavitands”,
I.D. Petsalakis, D. Tzeli, G. Theodorakopoulos, and J. Rebek, Jr.,
Chem. Phys. Lett. 728, 174 (2019).
DOI: [DOI: 10.1016/j.cplett.2019.05.007](https://doi.org/10.1016/j.cplett.2019.05.007)
4. “Recognition with metallo cavitands”,
F.U. Rahman, Y. Li, I.D. Petsalakis, G. Theodorakopoulos, J. Rebek, and Y. Yu,
Proc. Natl. Acad. Sci. USA 116, 17648 (2019).
DOI: [10.1073/pnas.1909154116](https://doi.org/10.1073/pnas.1909154116)
5. “Asymmetric phthalocyanines (A(3)B type) containing aminophenoxy and hydroxy-phenyl-diazenyl-phenoxy substituents”,
A. Thimiopoulos, E.D. Simandiras, and N. Psaroudakis,
Inorg. Chim. Acta 498, 119105 (2019).
DOI: [10.1016/j.ica.2019.119105](https://doi.org/10.1016/j.ica.2019.119105)
6. “A computational investigation of stereochemical preferences in the oxidative addition of allylic substrates on Mo(CO)(3)L: L=(S,S)-(2-pyridinecarboxamide)-(2-phenylcarboxamide)-1,2-cyclohexane”,
N. Sarantopoulos, E.D. Simandiras,
Inorg. Chim. Acta 489, 164 (2019).
DOI: [10.1016/j.ica.2019.02.013](https://doi.org/10.1016/j.ica.2019.02.013)
7. “Synthesis, characterization and DFT analysis of new phthalocyanine complexes containing sulfur rich substituents”,
A. Thimiopoulos, A. Vogiatzi, E. D. Simandiras, G. A. Mousdis, and N. Psaroudakis,
Inorg. Chim. Acta 488, 170 (2019).

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8. “Epitaxial highly ordered Sb:SnO₂ nanowires grown by the vapor liquid solid mechanism on m-, r- and a-Al₂O₃”,
M. Zervos, N. Lathiotakis, N. Kelaidis, A. Othonos, E. Tanasa, and E. Vasile,
Nanosc. Adv. 1, 1980 (2019).

DOI: [10.1039/c9na00074g](https://doi.org/10.1039/c9na00074g)

9. “Defect processes in F and Cl doped anatase TiO₂”,
O.-P. Filippatos, N. Kelaidis, M. Vasilopoulou, D. Davazoglou, N. N. Lathiotakis, A. Chroneos,
Sci. Rep. 9, 19970 (2019).

DOI: [10.1038/s41598-019-55518-8](https://doi.org/10.1038/s41598-019-55518-8)

10. “Electronic structures, bonding natures and defect processes in Sn-based 211 MAX phases”,

M.A. Hadi, N. Kelaidis, S.H. Naqib, A. Chroneos, and A.K.M.A. Islam,
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DOI: [10.1016/j.commatsci.2019.06.008](https://doi.org/10.1016/j.commatsci.2019.06.008)

11. “Organically interconnected graphene flakes: A flexible 3-D material with tunable electronic bandgap”,

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DOI: [10.1038/s41598-019-50037-y](https://doi.org/10.1038/s41598-019-50037-y)

12. “A Robust Machine Learning Algorithm for the Prediction of Methane Adsorption in Nanoporous Materials”,

G.S. Fanourgakis, K. Gkagkas, E. Tylianakis, E. Klontzas, and G.E. Froudakis,
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13. “Thermodynamics of force-induced transition B-DNA melting: Single-strand discreteness matters”,

N. Theodorakopoulos,
Phys. Rev. E 99, 032404 (2019).

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14. “Electronic factors determining the methane bond breaking process on small aluminum clusters”,

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15. “Surface-enhanced Raman spectroscopy of graphene integrated with plasmonic silicon platforms with a three-dimensional nanotopography”,

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16. “Mixed alkali/alkaline earth-silicate glasses: Physical properties and structure by vibrational spectroscopy”,

L. GrundBäck, S. Ali, S. Karlsson, D. Möncke, E.I. Kamitsos, and B. Jonson, *Int. J. Appl. Glass Sci.* **10**, 349 (2019).

[DOI: 10.1111/ijag.13101](https://doi.org/10.1111/ijag.13101)

17. “Santorini volcano as a potential Martian analogue: The Balos Cove Basalts”,

A. Pantazidis, I. Baziotis, A. Solomonidou, E. Manoutsoglou, D. Palles, E.I. Kamitsos, A. Karageorgis, G. Profitiliotis, M. Kondoyanni, S. Klemme, J. Berndt, D. Ming, and P. Asimow, *Icarus* **325**, 128 (2019).

[DOI: 10.1016/j.icarus.2019.02.026](https://doi.org/10.1016/j.icarus.2019.02.026)

18. “Borosilicate glass layers on Mycenaean glass: surface alterations by glass-borax-gold interactions”,

F. Drünert, F. Lind, P. Vontobel, E.I. Kamitsos, L. Wondraczek, and D. Möncke, *J. Non-Cryst. Solids: X* **3**, 100020 (2019).

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20. “The effect of nitrogen on the structure and thermal properties of beryllium-containing Na-(Li)-Si-O-N glasses”,

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[DOI: 10.1021/acs.jpcc.9b04617](https://doi.org/10.1021/acs.jpcc.9b04617)

22. “Silver-rich sulfide mineralization in the northwestern termination of the Western Cycladic Detachment System, at Mt. Hymittos (Attica, Greece): a mineralogical, geochemical and stable isotope study”,

C. Stouraiti, K. Soukis, P. Voudouris, S. Lozios, S. Lekkas, A. Beard, H. Strauss, D. Palles, I. Baziotis, and G. Soulamidis,
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23. “Nanographene oxide-TiO₂ photonic films as plasmon-free substrates for surface-enhanced Raman scattering”,
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25. “Geochemical and mineralogical characterization of smectites from the Ventzia basin, western Macedonia, Greece”,
S. Kaufhold, G.D. Chryssikos, G. Kacandes, V. Gionis, K. Ufer, and R. Dohrmann,
Clay Min. 54, 95 (2019).

[DOI: 10.1180/clm.2019.8](https://doi.org/10.1180/clm.2019.8)

26. “Photophysical properties of the composite based on poly-n-epoxypropylcarbazole and nickel dithiolene”,
N.A. Davidenko, I.I. Davidenko, A.V. Kukhta, I.N. Kukhta, E.V. Mokrinskaya, L.S. Tonkopieva, N.G. Chuprina, and G.A. Mousdis,
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27. “Influence of Pd-doping on structural, morphological, optical and electrical properties of sol-gel derived CuO thin films”,
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28. “Bottom-up microwave-assisted preparation of poly(methacrylic acid)-MoS₂ hybrid material”,
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31. “Integrating water-soluble polythiophene with transition metal dichalcogenides for managing photoinduced processes”,
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M. A. Koklioti, I. Saucedo-Orozco, M. Quintana, and N. Tagmatarchis,
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A. Stergiou, D. Perivoliotis, and N. Tagmatarchis,
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35. “Excited state charge transfer in covalently functionalized MoS₂ with zinc phthalocyanine donor-acceptor hybrid”,
R. Canton-Vitoria, H. B. Gobeze, V. M. Blas-Ferrando, J. Ortiz, Y. Jang, F. Fernandez-Lazaro, A. Sastre-Santos, Y. Nakanishi, H. Shinohara, F. D’Souza, and N. Tagmatarchis,
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A. Stergiou, K. Asad, A. Kourtellaris, N. Chronakis, and N. Tagmatarchis,
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9. “Experimental validation of a prototype photonic phase optical time domain reflectometer for SHM in large-scale infrastructures”, M.L. Filograno, G. Piniotis, V. Gikas, V. Papavassiliou, Ch. Gantes, M. Kandyla, and C. Riziotis, 4th Joint International Symposium on Deformation Monitoring (JISDM), Athens, Greece; May 15-17, 2019.

<https://jisdm2019.org/index.php/proceedings/>

10. “Design and implementation of fiber-embedded plasmonic structures in microwires”, A. Petropoulou, G. Antonopoulos, P. Bastock, G. Kakarantzas, C. Craig, D. Drikakis, D.W. Hewak, M.N. Zervas, and C. Riziotis, Photonics & Electromagnetics Research Symposium (Progress In Electromagnetics Research Symposium), 41st PIERS, Rome, Italy, June 17-20, 2019. IEEE Proceedings (pp. 2951-2957).
11. “Engineering photonic structures and functional optical materials: From structural health monitoring to biomedical applications”, C. Riziotis, 21st International Conference on Transparent Optical Networks (ICTON) 21st International Conference of Transparent Optical Network and 11th Sub-Wavelength Photonics Conference SWP 2019, Angers, France, July 9-13 2019. DOI: [10.1109/ICTON.2019.8839993](https://doi.org/10.1109/ICTON.2019.8839993)

3. Book Chapters

1. “If truncated wave functions of excited state energy saddle points are computed as energy minima, where is the saddle point?”, N.C. Bacalis, Theoretical Chemistry for Advanced Nanomaterials, Onishi T. (eds). Springer, Singapore, Online ISBN 978-981-15-0006-0 eBook Packages, Chemistry and Materials Science, DOI https://doi.org/10.1007/978-981-15-0006-0_13
2. “Basic properties and early works in organic–inorganic perovskites”, G.C. Papavassiliou, G. Mousdis, and I. Koutselas, Halide Perovskites: Photovoltaics, Light Emitting Devices, and Beyond, T.-C. Sum and N. Mathews (Eds.), Wiley-VCH Verlag GmbH & Co. KGaA., Weinheim; 2019, Chapter 1.1, pp. 1-19. ISBN: 978-3-527-34111-5
3. “Gas sensing monolayer MoS₂”, R. Canton-Vitoria, N. Tagmatarchis, Y. Sayed-Ahmad-Baraza, C. Ewels, D. Winterauer, T. Batten, A. Brunton, and S. Nufer, Nanoscale Materials for Warfare Agent Detection: Nanoscience for Security, NATO Science for Peace and Security Series A: Chemistry and Biology. C. Bittencourt, C. Ewels and E. Llobet (Eds), Springer Nature B.V., Dordrecht; 2019, Chapter 5, pp. 71-95. ISBN: 978-94-024-1620-6
4. “Pharmaceutical applications of carrageenan”, A. Papagiannopoulos, and S. Pispas, Natural polymers for pharmaceutical applications, Vol. 2. A. K. Nayak, M. S. Hasnain and D. Pal (Eds.), CRC Press, New York; 2019, Chapter 5, pp. 111-140. ISBN 978-0-42932-829-9

4. Books Authored

1. “Statistical Physics of DNA: An Introduction to Melting, Unzipping and Flexibility of the Double Helix”, N. Theodorakopoulos, World Scientific (2019). ISBN 978-981-120-953-6
[DOI:10.1142/11533](https://doi.org/10.1142/11533)

5. Patents

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6. Publications in Technical Journals / Miscellaneous Publications

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7. Dissertations

a. PhD theses

1. “Design, synthesis and study of novel phthalocyanine complexes”,
A. Thimiopoulos,
Supervisors: N. Psaroudakis and E. D. Simandiras, National and Kapodistrian University of Athens, Dept. of Chemistry (2019).
2. “Geochemical processes during the stabilization of potentially toxic elements in contaminated soil using mineral amendments”
Z. Kypridou,
Supervisors: A. Argyraki (UoA), G. D. Chryssikos (NHRF), M. Stamatakis (UoA), University of Athens, Department of Geology (2019).
3. “Functionalization of graphene and related two-dimensional materials with organic dyes”,
R. Canton-Vitoria,
Supervisor: Dr. N. Tagmatarchis, University of Crete, Department of Chemistry (2019).
4. “Hybrid materials based on graphene and metal chalcogenides for energy applications”,
A. Kagkoura,
Supervisor: Dr. N. Tagmatarchis, National and Kapodistrian University of Crete, Department of Chemistry (2019).
5. “Hybrid materials based on graphene and related materials with metal nanoclusters for energy conversion applications”,
M. Koklioti,
Supervisor: Dr. N. Tagmatarchis, University of Ioannina, Department of Chemistry (2019).
6. “Hybrid nanostructures based on graphene and related materials with metal nanoparticles with electrocatalytic activity”,
D. Perivoliotis,

Supervisor: Dr. N. Tagmatarchis, University of Ioannina, Department of Chemistry (2019).

7. “Synthesis of amphiphilic triblock terpolymers with cationogenic monomers, using the RAFT polymerization technique”,

A. Skandalis,

Supervisor: Dr. S. Pispas, National and Kapodistrian University of Athens, Department of Chemistry (2019).

8. “Block copolymers based on hydroxyl-(meth)acrylic monomers”,

T. Sentoukas,

Supervisor: Dr. S. Pispas, National and Kapodistrian University of Athens, Department of Chemistry (2019).

b. MSc theses

1. “Synthesis and characterization of hybrid organic – inorganic perovskite like materials”,

A. Ioannou,

Supervisor: Dr. G. Mousdis, National Technical University of Athens – School of Chemical Engineering, Materials Chemistry and Technology (2019).

2. “Amphiphilic block copolymers with poly(n-butyl acrylate) as the hydrophobic block: Synthesis and self-assembled nanostructures in aqueous solutions”,

A. Chroni,

Supervisor: Dr. S. Pispas, National and Kapodistrian University of Athens, Department of Chemistry (2019).

3. “Synthesis and characterization of amphiphilic copolymers of oligo ethylene glycol methacrylate”,

A. Kaditis,

Supervisor: Dr. S. Pispas, National Technical University of Athens, School of Applied Mathematics and Physical Sciences (2019).

4. “Development of optoelectronic devices based on Si/ZnO nano-heterostructures”,

G. Chatzigiannakis,

Supervisor: Dr. M. Kandyla, National Technical University of Athens, Joint Master’s Program in Materials Science and Technology (2019).

Best M.Sc. Thesis on Condensed Matter and Material Science Award, by the Hellenic Society for the Science and Technology of Condensed Matter (2019).

c. Honors theses

1. “Synthesis, spectroscopy, and computational DFT study of the mycro-3 compound”,

D. Mamalis,

Supervisors: V. Vidali and D.Tzeli, National and Kapodistrian University of Athens, Dept. of Chemistry (2019).

2. “Characterization of materials and processes by vibrational spectroscopy”,
D. Vellas,
Supervisor: Dr. G. D. Chryssikos, University of Ioannina, Department of Materials Science Engineering (2019).
3. “Amphiphilic P(SMA-co-OEGMA) copolymer as drug nanocarrier for curcumin”,
K. Koliopoulou and E. Dedeloudi,
Supervisor: Dr. S. Pispas and Prof. C. Demetzos, National and Kapodistrian University of Athens, Department of Pharmaceutics (2019).
4. “Development and applications of polymeric optical fiber sensors”,
S. Dimitriades,
Supervisors: C. Riziotis and I. Remediakis, Materials Science and Technology Department, University of Crete (2019).

d. Internships

1. “Fullerene C₆₀ supramolecular functionalization with CPP and porphyrin derivatives”,
S. Hede,
Supervisor: Dr. N. Tagmatarchis, University of Nantes, Department of Chemistry (2019).
2. “Solution properties of low molecular weight thermoresponsive PVCL homopolymers”,
N. Katsaros,
Supervisor: Dr. S. Pispas and Prof. A. Kyritsis, National Technical University of Athens, School of Applied Mathematics and Physical Sciences (2019).
3. “Complexation of magnetic NPs with double-hydrophilic POEGMA-b-PVBtMAC copolymers”,
A. Manimani,
Supervisor: Dr. S. Pispas and Prof. A. Kyritsis, National Technical University of Athens, School of Applied Mathematics and Physical Sciences (2019).
4. “Laser micro/nanostructuring of solid surfaces for optoelectronic applications”,
A. Kounoupioti,
Supervisor: Dr. M. Kandyla, National Technical University of Athens, School of Electrical Engineering and Computer Science (2019).
5. “Vibrational properties of alkali tellurite glasses”,
M. Jesuit and M. Boyd,
Supervisors: Dr. E.I. Kamitsos, TPCI / National Hellenic Research Foundation and Prof. S. Feller, Department of Physics, Coe College, Iowa, United States (2019).

8. Conference Presentations

1. “Theoretical studies on the photocatalytic hydrogen production mechanism by molecular copper complexes”,
M. Drosou, G. Ioannidis, D. Tzeli, and C.A. Mitsopoulou,
“Artificial Photosynthesis Faraday Discussion”, Cambridge, UK, 25-27/3/2019 (poster).
2. “Attosecond-resolved Quantum Chemistry. Predictions from the early years and comparison with recent experiments”,
C. A. Nicolaides,
Congress of the International Society of Theoretical Chemical Physics (ISTCP), 11-17/7/2019, Trømsø, Norway (invited talk).
3. “Structural, Electronic and Mechanical Properties of Molecularly Pillared, 3D Nanoporous Graphene Materials”,
E. Klontzas, G. E. Froudakis I. Skarmoutsos, K. Galiotis, and E. N. Koukaras,
12th Panhellenic Scientific Conference of Chemical Engineering 2019, 29-31/5/2019, Athens, Greece (oral).
4. “Tuning the properties of nanoporous materials with the aid of computational chemistry tools”,
E. Klontzas,
Computational methods in drug and materials design Mini Symposium, Biomedical Research Foundation Academy of Athens, 3/7/2019 (oral).
5. “Designing flexible nanomaterials based on pillar graphene with tailored electronic properties for electronic devices διατάξεις - GRAFEL”,
E. Klontzas,
84th International Exhibition of Thessaloniki, 7/9/2019 (oral).
6. “Constrained search for the optimal local potential: A way to heal self-interaction effects”,
N. Lathiotakis, T. Pitts, and N. I. Gidopoulos,
Workshop: “Quo vadis Self-Interaction Correction?”, Freiberg, Germany, 23-26/9/2019 (oral).
7. “Theoretical ab-initio study of graphene vacancies and pyridinic defects for gas separation”,
N. Lathiotakis*, Z. G. Fthenakis, and I. D. Petsalakis,
HeteroNanoCarb 2019, Advances and Applications in Carbon Related Nanomaterials: From pure to doped structures including heteroatom layers, Benasque (Aragon), Spain, 9-13/12/2019 (oral).
8. “Effective potentials in Reduced Density Matrix Functional Theory for the description of strong electronic correlations”,
S. Bousiadi*, N. N. Lathiotakis,

XXXIV Panhellenic Conference on Solid State Physics and Materials Science, Patra, Greece 11-14/9/2019 (oral).

9. “Surface-enhanced Raman spectroscopy of graphene integrated in three dimensional nanostructured plasmonic silicon platforms”,
M. Kandyla*, M. Kanidi, A. Dagkli, N. Kelaidis, D. Palles, S. Aminimalragia-Giamini, J. Marquez-Velasco, A. Colli, A. Dimoulas, E. Lidorikis, and E.I. Kamitsos,
Conference on Lasers and Electro-Optics (CLEO), Optical Society of America, San Jose, California, USA, May 5-10, 2019 (oral).

10. “Mechanical properties and bonding in phospho-aluminosilicate glasses”,
T. Grammes*, L. van Wüllen, D. de Ligny, E.I. Kamitsos, and D. Brauer,
Joint Meeting of DGG-USTV, Nürnberg, Germany; May 13-15, 2019 (oral).

11. “Network modifier cations in single and mixed ion glasses by far-infrared spectroscopy”,
E.I. Kamitsos,
25th International Congress on Glass (ICG2019), Boston, Massachusetts, USA; June 9-14, 2019 (invited talk).

12. “Structure and dynamics of ion-exchanged glasses”,
E.I. Kamitsos,
25th International Congress on Glass (ICG2019), Boston, Massachusetts, USA; June 9-14, 2019 (invited talk).

13. “Viscosity of TeO₂-based glasses”,
N.S. Tagiara*, D.R. Neuville, A. Kyritsis, and E.I. Kamitsos,
25th International Congress on Glass (ICG2019), Boston, Massachusetts, USA; June 9-14, 2019 (oral).

14. “Tough polymer networks with covalent and catechol-iron coordination bonds: correlation of binding stoichiometry with mechanical performance”,
E. Filippidi*, D. Palles, T.R. Cristiani, C.D. Eisenbach, and E.I. Kamitsos,
European Polymer Congress, EPF 2019, Heraklion Crete, June 9-14, 2019 (oral).

15. “Surface-enhanced Raman spectroscopy of graphene integrated with plasmonic black silicon”,
M. Kanidi, A. Dagkli, N. Kelaidis, D. Palles, S. Aminimalragia-Giamini, J. Marquez-Velasco, A. Colli, A. Dimoulas, E. Lidorikis, M. Kandyla*, and E.I. Kamitsos,
EMRS, Spring Meeting 2019 (oral).

16. “Structure, thermal and elastic properties of binary and ternary tellurite glasses”,
N.S. Tagiara, E. Moayed, A. Kyritsis, L. Wondraczek, and E.I. Kamitsos*,
4th International Workshop on Glass and Entropy & 9th Otto Schott Colloquium, Jena, Germany; September 9-12, 2019 (invited talk).

17. “Structure and viscosity of TeO₂-based glasses”,

N.S. Tagiara*, D.R. Neuville, A. Kyritsis, and E.I. Kamitsos,
4th International Workshop on Glass and Entropy & 9th Otto Schott Colloquium, Jena, Germany;
September 9-12, 2019 (poster).

18. “The network structure of phospho-aluminosilicate glasses and its effect on mechanical properties”,

T. Grammes*, A. Nizamutdinova, L. van Wüllen, D. de Ligny, E.I. Kamitsos, and D.S. Brauer,
4th International Workshop on Glass and Entropy & 9th Otto Schott Colloquium, Jena, Germany;
September 9-12, 2019 (oral).

19. “Investigating the influence of crucible material and melting conditions on the composition and structure-properties relationship of silicophosphate glasses”,

N. Sawangboon*, A. Nizamutdinova, R. Limbach, E. Meechoowas, K. Tapasa, L. Wondraczek,
E.I. Kamitsos, D. Möncke, L. van Wüllen, and D.S. Brauer,
4th International Workshop on Glass and Entropy & 9th Otto Schott Colloquium, Jena, Germany;
September 9-12, 2019 (poster).

20. “Structural characterization of borate-based 45S5 bioactive glasses by solid state NMR”,

D.A. Avila Salazar*, E.I. Kamitsos, S. Venkatachalam, L. van Wüllen, and D.S. Brauer,
4th International Workshop on Glass and Entropy & 9th Otto Schott Colloquium, Jena, Germany;
September 9-12, 2019 (poster).

21. “Structural investigation of lithium borotellurite glasses by vibrational spectroscopic techniques”,

K.I. Chatzipanagis*, N.S. Tagiara, D. Möncke, S. Kundu, A.C.M. Rodrigues, and E.I. Kamitsos,
34th Annual Panhellenic Conference on Solid State Physics & Materials Science, University of
Patras, Greece; September 11-14, 2019 (oral).

22. “Synthetic zeolite from lignite fly ash and adsorption of phosphate from aqueous solutions”,

D. Mitrogiannis*, E. Stafyli, M. Psychoyou, D. Alexopoulos, N. Koukouzas, D. Palles, E.I.
Kamitsos, and I. Baziotis,
11th Panhellenic Conference of EGME, Volos, Greece; November 7-8, 2019 (oral).

23. “Glass network variations probed by IR and Raman spectroscopy”,

D. Möncke,
PACRIM13, Okinawa, Japan; October 27 – November 1, 2019 (invited talk).

24. “NMF in kaolinite: Intercalation kinetics by Near-Infrared spectroscopy”,

F. Andreou*, E. Siranidi, V. Gionis, and G. D. Chryssikos,
International Conference on Clay Science and Technology, Euroclay 2019, Paris, France; July 1-
5, 2019 (poster).

25. “NMF-intercalated kaolinite: a comparative vibrational and XRD investigation”,
F. Andreou, E. Siranidi*, V. Gionis, G. D. Chryssikos, and A. Derkowski,

International Conference on Clay Science and Technology, Euroclay 2019, Paris, France; July 1-5, 2019 (poster).

26. “The effect of hydration on the vibrational spectrum of hectorite”,
E. Siranidi, V. Gionis*, and G.D. Chryssikos,
International Conference on Clay Science and Technology, Euroclay 2019, Paris, France; July 1-5, 2019 (poster).

27. “Reactions on clay surfaces monitored by infrared spectroscopy”,
V. Gionis, and G.D. Chryssikos*,
International Conference on Clay Science and Technology, Euroclay 2019, Paris, France; July 1-5, 2019 (oral).

28. “New organic – inorganic hybrid materials as possible replacement for lead perovskites at photovoltaic applications”,
G. Mousdis,
Pearl-PV Cost Action (CA16235) MC meeting and WG workshops, Lisboa, Portugal; February 25-28, 2019 (oral).

29. “Low dimensional organic-inorganic hybride perovskites”,
G. Mousdis*, A. Ioannou, V. Psycharis, and C.P. Raptopoulou,
12th Panhellenic Scientific Conference on Chemical Engineering, Athens, Greece; May 29-31, 2019 (oral).

30. “Organic-inorganic hybridecompounds of copper with perovskite like structures”,
A. Ioannou*, G. Mousdis, K. Kolia, K. Milonakou-Koyfoudaki, and V. Psycharis,
12th Panhellenic Scientific Conference on Chemical Engineering, Athens, Greece; May 29-31, 2019 (oral).

31. “Enhanced photocatalytic activity of novel TiO₂ thin films developed on a laser-microstructured Si surface”,
C. Christophoridis*, M. Kanidi, M. Kandyla, G. Mousdis, E. Bizani, and A. Hiskia,
6th European Conference on Environmental Applications of Advanced Oxidation Processes, Portoroze, Slovenia; June 26-30, 2019 (oral).

32. “Antimony and bismuth hybrid materials as possible replacement for lead perovskites at photovoltaic applications”,
G. Mousdi*, A. Ioannou, V. Psycharis, and K. Raptopoulou,
XXXIV Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece; September 11-14, 2019 (oral).

33. “Photoconductivity of 2d up to 3d lead perovskites”,
A. Ioannou*, G. Mousdis, K. Kollia, K. Milonakou-Koufoudaki, and S. Gardelis,
XXXIV Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece; September 11-14, 2019 (poster).

34. “Resistivity Gas sensors (Chemiresistors)”,
G. Mousdis,
Advanced nanomaterials for detection of CBRN NATO ARW, Odessa, Ukraine; October 2-6, 2019 (oral).
35. “Hybrid organic-inorganic Pb-free perovskite materials for PV applications”,
A. Ioannou,
Cost-PEARL-PV Training School, Evaluation of the performance degradation of PV-systems – influence factors, failure modes and their detectability and effect on economic viability, Paola, Malta; October 15-18, 2019 (oral).
36. “Functionalized carbon nanostructures and transition metal dichalcogenides for energy-related applications”,
N. Tagmatarchis,
Department of Chemistry, Chalmers University of Technology, Gothenburg, Sweden; November 8 2019 (invited talk).
37. “Preparation and characterization of poly(methacrylic acid)-MoS₂ hybrid material”,
A. Kagkoura*, T. Sentoukas, S. Pispas, and N. Tagmatarchis,
European Polymer Congress, EPF 2019, Heraklion, Crete, Greece; June 9-14, 2019 (poster).
38. “Photoinduced charge-transfer in functionalized MoS₂ with zinc phthalocyanine”,
R. Canton-Vitoria, H. B. Gobeze, V. M. Blass-Ferrando, J. Ortiz, Y. Jang, F. Fernandez-Lazaro, A. Sastre-Santos, Y. Nakanishi*, H. Shinohara, F. D’Souza, and N. Tagmatarchis,
16th International Conference on Nanoscience & Nanotechnologies (NN19), Thessaloniki, Greece; July 2-5, 2019 (poster).
39. “Tether-directed regioselective synthesis of an equatorial_{face}bisadduct of azafullerene using cyclo-[2]-octylmalonate”,
A. Stergiou, K. Asad, A. Kourtellaris, N. Tagmatarchis, and N. Chronakis*,
European Symposium on Organic Chemistry – ESOC, Vienna, Austria; July 14-18, 2019 (poster).
40. “2D Material-metal nanoparticle platforms for surface enhanced Raman scattering (SERS) sensing”,
M. Koklioti, M. Quintana*, and N. Tagmatarchis,
Materials Research Society – XXVIII International Materials Research Congress, MRS 2019, Cancun, Mexico; August 18-23, 2019 (oral).
41. “Azaborondipyrromethane derivatives covalently attached on graphene”,
R. Canton-Vitoria*, and N. Tagmatarchis,
NanoteC19 – Carbon Nanoscience and Nanotechnology, Zaragoza, Spain; August 27-30, 2019 (poster).
42. “Covalently incorporated photoactive dyes onto transition metal dichalcogenides”,
R. Canton-Vitoria*, R. Kitaura, and N. Tagmatarchis
HeteroNanoCarb 2019, Benasque, Spain; December 9-13, 2019(oral).

43. “Triblock terpolymers by RAFT polymerization: Synthesis and nanostructure formation in solutions”,
S. Pispas,
Polymers 2019, Pomorie, Bulgaria; 9-12 September 2019 (plenary lecture).
44. “Cationic block copolymer based nanocarriers for proteins and nucleic acids”,
S. Pispas,
9th World Congress on Chemistry and Medicinal Chemistry, Prague, Czech Republic; May 13-14, 2019 (keynote lecture).
45. “Polymeric nanosystems for the delivery of nucleic acids”,
S. Pispas,
Applied Nanotechnology in Health Sciences and Environment, Herakleion, Crete, June 30, 2019 (invited talk).
46. “Preparation and behavior at environmental changes of star-shaped PDMAEMA-based polyplexes”,
E. Veleva-Kostadinova, E. Haladjova*, A. Skandalis, S. Pispas, and S. Rangelov,
Polymers 2019, Pomorie, Bulgaria; September 9-12, 2019 (poster).
47. “The influence of PEO-b-PCL on formulation and morphology of niosomes”,
A. Forys*, N. Pippa, N. Naziris, S. Pispas, C. Demetzos, A. Marcinkowski, and B. Trzebicka,
Polymers 2019, Pomorie, Bulgaria; September 9-12, 2019 (poster).
48. “Direct visualization of lipid-polymer structures by cryo-TEM”,
A. Forys*, M. Chountoulesi, N. Pippa, S. Pispas, C. Demetzos, L. Otulakowski, and B. Trzebicka,
14th Multinational Congress on Microscopy, Belgrade, Serbia; September 15-20, 2019 (poster).
49. “Study of lipid-copolymer systems by cryo-TEM and DLS”,
A. Forys*, M. Chountoulesi, N. Pippa, S. Pispas, C. Demetzos, L. Otulakowski, and B. Trzebicka,
28th Annual Conference of the Polish Society for Biomaterials, Rytro, Poland; October 10-13, 2019 (poster).
50. “Elastic interconnection of optical fibers using self-written waveguides”,
G. Violakis*, A. Bogris, S. Pispas, B. Loppinet, and S. Pissadakis,
2019 Conference on Lasers & Electro-Optics / Europe and European Quantum Electronics Conference (CLEO@ / Europe-EQEC), Munich, Germany; June 23-29, 2019 (poster).
51. “Morphology of thermoresponsive molecular brushes with copolymer side arms in aqueous solution”,
J.-J. Kang*, F. Kohler, H. Dietz, C. M. Papadakis, J. Zhao, and S. Pispas,
2019 DPG Spring Meeting, Regensburg, Germany; April 2-4, 2019 (oral).

52. “Association of block copolymer micelles with hydrophilic coronas with hydrophobic terminal groups in aqueous media”,
A. Fanova, S. Pispas, K. Prochazka, and M. Stepanek*,
European Colloids and Interface Society Conference ECIS 2019, Leuven, Belgium; September 8-13, 2019 (oral).
53. “QPDMAEMA-*b*-PLMA-*b*-POEGMA triblock terpolymers as potential gene delivery vectors”,
A. Skandalis*, and S. Pispas,
European Polymer Congress EPF 2019, Heraklion, Crete; September 9-14, 2019 (oral).
54. “(AB)_n, A_nB_n and A_xB_y type amphiphilic and double hydrophilic star polymers by RAFT polymerization”,
A. Skandalis*, and S. Pispas,
European Polymer Congress EPF 2019, Heraklion, Crete; September 9-14, 2019 (poster).
55. “P_nBA-POEGA Amphiphilic Block Copolymers: Encapsulation and delivery of hydrophobic drugs”,
A. Chroni*, and S. Pispas,
European Polymer Congress EPF 2019, Heraklion, Crete; 9-14 September 2019 (poster).
56. “Amphiphilic P(DMAEMA-co-QDMAEMA)-*b*-POEGMA block copolymers: Synthesis, Solution self-assembly and Complexation with DNA”,
M. Kafetzi*, and S. Pispas,
European Polymer Congress EPF 2019, Heraklion, Crete; September 9-14, 2019 (poster).
57. “Probing counterion distribution around the polyelectrolyte chain by fluorescence spectroscopy”,
A. Fanova, M. Janata, S. Pispas, P. Kosovan, and M. Stepanek*,
European Polymer Congress EPF 2019, Heraklion, Crete; September 9-14, 2019 (oral).
58. “Structural studies of intrinsically disordered proteins towards the development of formulations for market-oriented pharmaceutical products”,
A. Papagiannopoulos, M-D. Charavgi, P. F. Karakousi, I. Tseti, S. Pispas, and E.D. Chrysina*,
INSTRUCT Biennial Conference, Madrid, Spain; May 22-24, 2019 (poster).
59. “Physicochemical characterization of casein micelles for nanoformulations in the food industry”,
A. Papagiannopoulos*, M-D. Charavgi, P. F. Karakousi, I. Tseti, E. D. Chrysina, and S. Pispas,
11th International Conference on “Instrumental Methods of Analysis” (IMA-2019), Ioannina, Greece; September 22-25, 2019 (poster).
60. “Interaction of bovine serum albumin with the amphiphilic block copolymer PEG-*b*-PPHO_x”,
E. Vlasi*, A. Papagiannopoulos, S. Pispas, and J.E. Houston,

XXXVI Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece; September 11-14, 2019 (poster).

61. “Physicochemical characterization of casein micelles for nanoformulations in the food industry”,

A. Papagiannopoulos*, M-D.Charavgi, P.F. Karakousi, I. Tseti, E. D. Chrysina, and S. Pispas, XXXVI Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece; September 11-14, 2019 (poster).

62. “Polysaccharide/protein multilayers on the Au/water interface”,

G. Tassis*, A. Papagiannopoulos, N. Spiliopoulos, S. Pispas, A. Marcinkowski, and B. Trzebicka,

XXXVI Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece; September 11-14, 2019 (poster).

63. “Films of polymer blends with tunable wettability on microstructured silicon substrates”,

M. Kanidi*, A. Papagiannopoulos, A. Skandalis, S. Pispas, and M. Kandyla,

XXXVI Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece; September 11-14, 2019 (oral).

64. “Structural studies of intrinsically disordered proteins foster their potential to be exploited as components of new formulations for market-oriented pharmaceutical products”,

M.D. Charavgi*, P. F. Karakousi, A. Papagiannopoulos, I. Tseti, S. Pispas, and E. D. Chrysina, 70th HSBMB, Athens, Greece; November 29 – December 1, 2019 (poster).

65. “Films of polymer blends with tunable wettability on flat and microstructured silicon surfaces”,

M. Kanidi*, A. Papagiannopoulos, A. Skandalis, S. Pispas, and M. Kandyla*,

COST Action CA15107, Multi-functional Nano-Carbon Composite Materials Network (MultiComp), Spring Meeting, Aveiro, Portugal; March 21-22, 2019 (oral).

66. “Tunable wettability of polymer blend films on flat and microstructured silicon surfaces”,

M. Kanidi, A. Papagiannopoulos, A. Skandalis, S. Pispas, and M. Kandyla*, European Materials Research Society (E-MRS), Nice, France; May 26-31, 2019 (poster).

67. “Star-shaped PDMAEMA-based polyplexes: Preparation and behavior at environmental changes”,

E. Veleva-Kostadinova*, E. Haladjova, A. Skandalis, S. Pispas, and S. Rangelov,

Annual Session for Young Scientists, Sofia, Bulgaria; June 5-6, 2019 (poster).

68. “Photoresponsivity of laser-microstructured ZnO/Si heterojunctions”,

G. Chatzigiannakis*, S. Gardelis, V. Lykodimos, and M. Kandyla,

34th Panhellenic Conference on Solid-State Physics and Materials Science, Patras, Greece, September 11-14, 2019 (oral).

69. “Laser-microstructured ZnO/Si heterojunction photodetectors with enhanced performance”,

G. Chatzigiannakis, K. Nikolaidou, S. Gardelis, and M. Kandyla*,
European Materials Research Society (E-MRS) 2019 Spring Meeting, Nice, France, May 27-31,
2019 (poster).

70. “A hybrid photonic-geodetic approach for the assessment of dynamic testing and structural health monitoring in large-scale infrastructures”,
M.L. Filograno, G. Piniotis, V. Gikas, V. Papavassiliou, C. Gantes, M. Kandyla, and C. Riziotis*,
4th Joint International Symposium on Deformation Monitoring (JISDM), Athens, Greece, May
15-17, 2019 (oral).

71. “Investigations of biomaterials with video particle tracking microrheology”,
A. Papagiannopoulos,
11th International Conference on Instrumental Methods of Analysis: Modern Trends and
Applications, Ioannina, Greece; September 22-25, 2019 (poster).

72. “Soft nanostructured biomaterials based on polysaccharides”,
A. Papagiannopoulos,
34th Annual Panhellenic Conference on Solid State Physics and Materials Science, Patras,
Greece; September 11-14, 2019 (oral).

73. “Synthesis and characterization of poly(ethylene oxide) hydrogels for bio-applications”,
E. Vlasi*, A. Papagiannopoulos, and A. Radulescu,
34th Annual Panhellenic Conference on Solid State Physics and Materials Science, Patras,
Greece; September 11-14, 2019 (poster).

74. “Sequentially adsorbed layers of chitosan and fibrinogen for bio-related applications”,
G. Tassis*, and A. Papagiannopoulos,
34th Annual Panhellenic Conference on Solid State Physics and Materials Science, Patras,
Greece; September 11-14, 2019 (poster).

75. “Adsorption of biological macromolecules on thin Au films: a surface plasmon resonance spectroscopy study”,
N. T. Samartzis*, G. Tassis, A. Papagiannopoulos, N. Spiliopoulos, D. L. Anastassopoulos,
34th Annual Panhellenic Conference on Solid State Physics and Materials Science, Patras,
Greece; September 11-14, 2019 (poster).

76. “Small Angle Neutron Scattering on Synthetic, Biological and Hybrid Nanomaterials”,
A. Papagiannopoulos,
European Polymer Congress, Heraklion Greece; June 9-14, 2019 (oral).

77. “Surface Plasmon Resonance investigation of clay and organo-clay film formation on Au/water interface”,
E. Koutsopoulou, A. Papagiannopoulos, and G. Christidis*,
International Conference on Clay Science and Technology EUROCLAY 2019, Paris, France;
July 1-5, 2019 (poster).

78. “Translational symmetry breaking at the nanoscale”,
V. Gavriil*, A.C. Cefalas, Z. Kollia and E. Sarantopoulou,
Two-day conference “Interaction of laser beams with matter: achievements and prospects”
(HELLAS-CH), University of Ioannina, Ioannina, Greece; August 29-30, 2019 (Oral).
79. “Activation of cancer cell growth from a synergetic interaction between integrins and nanoparticles”,
V.Gavriil*, E. Sarantopoulou, Z. Kollia, A.C. Cefalas, A. Ferraro, V.V. Semashko, M.S. Pudovkin, A.S. Nizamutdinov and P.V. Zelenikhin,
16th International Conference on Nanosciences and Nanotechnologies (NN19), Thessaloniki, Greece; July 2-5, 2019 (Oral).
80. “Entropic production rate drives five and six-fold convective micro/nano-patterns via Rayleigh- Bernard instabilities in curved and planar surfaces”,
V. Gavriil*, N. Spyropoulos-Antonakakis, A. C. Cefalas, Z. Kollia and E. Sarantopoulou,
16th International Conference on Nanosciences and Nanotechnologies (NN19), Thessaloniki, Greece; July 2-5, 2019 (Poster).
81. “Quantum Brain and Memory: Myth or Reality”,
A.C. Cefalas*,
3rd Conference of Psychosomatic Medicine, Athens, Greece, Nov. 29 - Dec.1, 2019 (Oral).
82. “Cytoskeletal stressing modes in cancer cells”,
V. Gavriil, E. Sarantopoulou, Z. Kollia, M. Goulielmaki, V. Zoumpourlis and A.C. Cefalas*,
24th World Congress on Advances in Oncology & 24th International Symposium on Molecular Medicine, Mystras, Sparta, Greece; October 10-12, 2019 (Oral).
83. “Functionalized micro-nano-fibers and hybrid photonic crystal fibers: The role of new materials”
G. Kakarantzas*,
7th International Conference and Exhibition on Optics and Electro-optics (OASIS-7), Tel Aviv, Israel; April 1-2, 2019 (Invited talk).
84. “Experimental validation of a prototype photonic phase optical time domain reflectometer for SHM in large-scale infrastructures”,
M.L. Filograno, G. Piniotis, V. Gikas, V. Papavassiliou, Ch. Gantes, M. Kandyla, and C. Riziotis*,
4th Joint International Symposium on Deformation Monitoring (JISDM), Athens, Greece; May 15-17, 2019 (Oral).
85. “Design and direct laser inscription of integrated optical circuits for quantum computing”,
A. Sinani* and C. Riziotis,
1st Summit on Gender Equality in Computing (GEC 2019), Athens, Greece, June 7, 2019 (Oral).
86. “Design and implementation of fiber-embedded plasmonic structures in microwires”,

A. Petropoulou, G. Antonopoulos, P. Bastock, G. Kakarantzas, C. Craig, D. Drikakis, D.W. Hewak, M.N. Zervas, and C. Riziotis*,
Photonics & Electromagnetics Research Symposium (Progress in Electromagnetics Research Symposium), 41st PIERS, Rome, Italy, June 17-20, 2019 (Invited Talk).

87. “Engineering photonic structures and functional optical materials: From structural health monitoring to biomedical applications”,
C. Riziotis*,
21st International Conference on Transparent Optical Networks (ICTON) and 11th Sub-Wavelength Photonics Conference SWP 2019, Angers, France, July 9-13, 2019 (Invited Talk).

88. “Engineering photonic structures and functional materials towards smart physical and chemical sensors”,
C. Riziotis*,
5th Ed. Smart Materials and Surfaces - SMS Conference, SMS 2019; Smart Sensors Focused Session. Lisbon - Portugal, Oct 23- 25, 2019 (Invited Keynote Talk).

9. Popular Conference Presentations

1. “Vibrational spectroscopy: infrared”,
G.D. Chryssikos,
Spectroscopy Days, Institute of Nanoscience and Nanotechnology, NCSR “Demokritos”, Athens, Greece; May 16, 2019 (masterclass).

2. “Photovoltaics: existing and future technology, the most reliable source of renewable energy”,
G. Mousdis,
Physics spell of Athens, Greece; December 13-15, 2019 (Oral).

3. “Ιατρικές εφαρμογές αισθητήρων”,
Μ. Κομπίτσας.
Εθνικό Ίδρυμα Ερευνών, Ειδικές Μορφωτικές Εκδηλώσεις, Γ' Κύκλος, Θετικές Επιστήμες – Έρευνα – Φάρμακα – Υγεία, Αθήνα, Ελλάδα, Μάρτιος 5 – Απρίλιος 16. 2019.

4. “Το Laser ως διαγνωστικό εργαλείο στην φυσικοχημεία, ιατρική, βιολογία.....” (για μαθητές Γυμνασίου και Λυκείου)
Μ. Κομπίτσας, Γ. Μούσδης, και Α. Ιωάννου,
Εθνικό Ίδρυμα Ερευνών, Βραδιά του Ερευνητή, Αθήνα, Ελλάδα; 20 Σεπτεμβρίου 2019.

5. “The molecular basis of cellular damage by non-ionizing radiation”,
A.C. Cefalas*,
Workshop on “Scientific evidences on the Impact of Electromagnetic Radiation on Health & Environmental. The Dark Side of 5G and the Smart (?) City: A transnational Issue”, Organized by the Municipality of Patras, Patra, Greece; February 2, 2019 (Invited).

6. “The impact of 5G system on health and environment”,
A.C. Cefalas*,
Workshop on the 5G system organized by the municipality of Kalamata, Kalamata, Greece;
October 6, 2019 (Invited).
7. “The effects of non-ionizing radiation on human health”,
A.C. Cefalas*,
Invited talk on the house of parliament of Cyprus, Nicosia, Cyprus; October 24, 2019 (Invited).
8. “Καινοτόμος τεχνολογία πλέγματος στη μικροσκοπική διάγνωση πλακιδίων PAP Test”,
Ε. Τσιάμπας* και Χ. Ριζιώτης*,
Διημερίδα ΑΚΟΣ - Ακτινοθεραπευτική Ογκολογική Συνεργασία, "Στόχος: η Ποιότητα στη
Διάγνωση στη Θεραπεία στη Ζωή", 22-23 Φεβ. 2019, Αίγλη Ζαπείου (Προσκεκλημένη
Συμμετοχή και Ομιλία).
9. “Engineering photonic structures and functional optical materials: From structural health
monitoring to biomedical applications”,
C. Riziotis*,
Skoltech-Skolkovo Institute of Science & Technology, Moscow, Russia, 2 July 2019 (Invited
Seminar).