

**1. Papers in Refereed Journals**

1. “Porous carbon nanotube networks and pillared graphene materials exhibiting high SF<sub>6</sub> adsorption uptake and separation selectivity of SF<sub>6</sub>/N<sub>2</sub> fluid mixtures: A comparative molecular simulation study”,  
I. Skarmoutsos, E.N. Koukaras, C. Galiotis, G.E. Froudakis, and E. Klontzas,  
Micropor. Mesopor. Mater. 307, 110464 (2020).  
DOI: [10.1016/j.micromeso.2020.110464](https://doi.org/10.1016/j.micromeso.2020.110464)
2. “Confinement effects on the properties of polar hydrogen-bonded fluids: A showcase on methanol adsorbed in three-dimensional pillared graphene and carbon nanotube networks”,  
I. Skarmoutsos, E.N. Koukaras, G.E. Froudakis, G. Maurin, and E. Klontzas,  
J. Phys. Chem. C 124, 22959 (2020).  
DOI: [10.1021/acs.jpcc.0c06289](https://doi.org/10.1021/acs.jpcc.0c06289)
3. “An automated machine learning architecture for the accelerated prediction of metal-organic frameworks performance in energy and environmental applications”,  
I. Tsamardinou, G.S. Fanourgakis, E. Greasidou, E. Klontzas, K. Gkagkas, and G.E. Froudakis,  
Micropor. Mesopor. Mater. 300, 110160 (2020).  
DOI: [10.1016/j.micromeso.2020.110160](https://doi.org/10.1016/j.micromeso.2020.110160)
4. “Hydration structure and dynamics of the favipiravir antiviral drug: A molecular modelling approach”,  
I. Skarmoutsos, G. Maurin, E. Guardia, and J. Samios,  
B. Chem. Soc. Jpn. 93, 1378-1385 (2020).  
DOI: [10.1246/bcsj.20200163](https://doi.org/10.1246/bcsj.20200163)
5. “Solvation structure and dynamics of the dimethylammonium cation diluted in liquid water: A molecular dynamics approach”,  
I. Skarmoutsos, E. Guardia,  
J. Chem. Phys. 152, 234501 (2020).  
DOI: [10.1063/5.0004204](https://doi.org/10.1063/5.0004204)
6. “Enhanced organic and perovskite solar cell performance through modification of the electron-selective contact with a bodipy-porphyrin dyad”,  
K. Gkini, A. Verykios, N. Balis, A. Kaltzoglou, M. Papadakis, K. S. Adamis, K.-K. Armadorou, A. Soultati, C. Drivas, S. Gardelis, I.D. Petsalakis, L.C. Palilis, A. Fakharuddin, M.I. Heider, X. Bao, S. Kennou, P. Argitis, L. Schmidt-Mende, A. G. Coutsolelos, P. Falaras, and M. Vasilopoulou,  
ACS Appl. Mater. Inter., 12, 1120 (2020).  
DOI: [10.1021/acsami.9b17580](https://doi.org/10.1021/acsami.9b17580)

7. “The solvent effect on a styryl-bodipy derivative functioning as an AND molecular logic gate”,  
D. Tzeli, I.D. Petsalakis, and G. Theodorakopoulos,  
*Int. J. Quantum Chem.* **120**, e26181 (2020).  
DOI: [10.1002/qua.26181](https://doi.org/10.1002/qua.26181)
8. “Chalcogen bonding and hydrophobic effects force molecules into small spaces”,  
F.-U. Rahman, D. Tzeli, I. Petsalakis, G. Theodorakopoulos, P. Ballester, J. Rebek, Jr., and Y. Yu,  
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DOI: [10.1021/jacs.0c01290](https://doi.org/10.1021/jacs.0c01290)
9. “Binding selectivity and separation of p-functionalized toluenes with a metallo-cavitand in water”,  
F.-U. Rahman, J.M. Yang, Y.H. Wan, H.-B. Zhang, I.D. Petsalakis, G. Theodorakopoulos, J. Rebek, and Y. Yu,  
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DOI: [10.1039/d0cc02778b](https://doi.org/10.1039/d0cc02778b)
10. “Aromaticity and chemical bonding of chalcogen-bonded capsules featuring enhanced magnetic anisotropy”,  
D. Tzeli, I.D. Petsalakis, G. Theodorakopoulos, F.-U. Rahman, P. Ballester, J. Rebek, Jr., and Y. Yu,  
*ChemPhysChem* **21**, 2187 (2020).  
DOI: [10.1002/cphc.202000654](https://doi.org/10.1002/cphc.202000654)
11. “Suppressing the photocatalytic activity of zinc oxide electron-transport layer in nonfullerene organic solar cells with a pyrene-bodipy interlayer”,  
A. Soultati, A. Verykios, S. Panagiotakis, K.-K. Armadorou, M.I. Haider, A. Kaltzoglou, C. Drivas, A. Fakharuddin, X. Bao, C. Yang, A. R. bin M. Yusoff, E. K. Evangelou, I.D. Petsalakis, S. Kennou, P. Falaras, K. Yannakopoulou, G. Pistolis, P. Argitis, and M. Vasilopoulou,  
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12. “Quadruple bonding in the ground and low-lying excited states of the diatomic molecules TcN, RuC, RhB, and PdBe”,  
D. Tzeli, I.N. Karapetsas,  
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DOI: [10.1021/acs.jpca.0c03208](https://doi.org/10.1021/acs.jpca.0c03208)
13. “Reactivity and mechanism of photo- and electrocatalytic hydrogen evolution by a diimine copper(I) complex”,  
M. Drosou, F. Kamatsos, G. Ioannidis, A. Zarkadoulas, C. Mitsopoulou, C. Papatriantafyllopoulou, and D. Tzeli,  
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14. “Electronic properties of the  $\text{Sn}_{1-x}\text{Pb}_x\text{O}$  alloy and band alignment of the SnO/PbO system: a DFT study”,  
N. Kelaidis, S. Bousiadi, M. Zervos, A. Chroneos, and N.N. Lathiotakis,  
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15. “Density-inversion method for the Kohn-Sham potential: role of the screening density”,  
T.J. Callow, N.N. Lathiotakis, and N.I. Gidopoulos,  
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16. “Improving the exchange and correlation potential in density-functional approximations through constraints”,  
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17. “Atomic structure and electronic properties of hydrogenated X (=C, Si, Ge, and Sn) doped  $\text{TiO}_2$ : A theoretical perspective”,  
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18. “Ultrafast time delay as a control parameter in resonant ionization by two XUV ultrashort pulses”,  
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Y. Komninos, Th. Mercouris, and C.A. Nicolaides,  
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20. “Short-range disorder in  $\text{TeO}_2$  melt and glass”,  
O.L.G. Alderman, C.J. Benmore, S. Feller, E.I. Kamitsos, E.D. Simandiras, D.G. Liakos, M. Jesuit, M. Boyd, M. Packard, and R. Weber,  
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21. “On the absence of doubly bonded  $\text{Te}=\text{O}$  groups in  $\text{TeO}_2$  glass”,  
A.G. Papadopoulos, N.S. Tagiara, E.D. Simandiras, and E.I. Kamitsos,  
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N. Sawangboon, A. Nizamutdinova, T. Uesbeck, R. Limbach, E. Meechoowas, K. Tapasa, D. Möncke, L. Wondraczek, E.I. Kamitsos, L. van Wüllen, and D. Brauer,  
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23. “Spectroscopic study of the role of alkaline earth oxides in mixed borate glasses - site basicity, polarizability and glass structure”,  
H. Othman, H. Elkholy, M.R. Cicconi, D. Palles, D. de Ligny, E.I. Kamitsos, and D. Möncke,  
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24. “Calcium modified clinoptilolite as a recovery medium of phosphate and potassium from anaerobically digested olive mill wastewater”,  
D. Mitrogiannis, M. Psychoyou, M.E. Kornaros, K. Tsigkou, M. Brulé, N. Koukouzas, D. Alexopoulos, D. Palles, E. Kamitsos, G. Oikonomou, A. Papoutsas, S. Xydous, and I. Baziotis,  
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25. “Halogen-NH<sub>2</sub><sup>+</sup> interaction, temperature induced phase transitions and ordering in (NH<sub>2</sub>CHNH<sub>2</sub>)PbX<sub>3</sub> (X = Cl, Br, I) hybrid perovskites”,  
A.G. Kontos, G.K. Manolis, A. Kaltzoglou, D. Palles, E.I. Kamitsos, M.G. Kanatzidis, and P. Falaras,  
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30. “Spectroscopic studies of mobile cations in glass”,  
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31. “Nucleation pathway of calcium sulfate hemihydrate (Bassanite) from solution: Implications for calcium sulfates on mars”,  
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32. “Hybrid halobismuthates as prospective light-harvesting materials: Synthesis, crystal, optical properties and electronic structure”,  
G.C. Anyfantis, A. Ioannou, H. Barkaoui, Y. Abid, C.P. Raptopoulou, V. Psycharis, and G.A. Mousdis,  
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33. “Front face synchronous fluorescence as a tool for the quality assurance of Greek milk”,  
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34. “New cationic heptamethinecyanine-graphene hybrid materials”,  
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35. “Pyrene coating transition metal disulfides as protection from photooxidation and environmental ageing”,  
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36. “Ping-pong intercomponent energy transfer in covalently linked porphyrin-MoS<sub>2</sub> architectures”,

R. Canton-Vitoria, T. Scharl, A. Stergiou, A. Cadranel, R. Arenal, D. M. Guldi, and N. Tagmatarchis,  
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37. “Stability improvement and performance reproducibility enhancement of perovskite solar cells following (FA/MA/Cs)  $\text{PbI}_{3-x}\text{Br}_x$ /( $\text{CH}_3$ )<sub>3</sub>SPbI<sub>3</sub> dimensionality engineering”,  
M.M. Elsenety, M. Antoniadou, N. Balis, A. Kaltzoglou, L. Sygellou, A. Stergiou, N. Tagmatarchis, and P. Falaras,  
*ACS Appl. Energy Mater.* **3**, 2455 (2020).  
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38. “In-situ growth and immobilization of CdS nanoparticles onto functionalized MoS<sub>2</sub>: preparation, characterization and fabrication of photoelectrochemical cell”,  
A. Kagkoura, J. Hernandez-Ferrer, A. M. Benito, W. K. Maser, and N. Tagmatarchis,  
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39. “Bottom-up synthesized MoS<sub>2</sub> interfacing polymer carbon nanodots with electrocatalytic activity for hydrogen evolution”,  
A. Kagkoura, R. Canton-Vitoria, L. Vallan, J. Hernandez-Ferrer, A. M. Benito, W. K. Maser, R. Arenal, and N. Tagmatarchis,  
*Chem. Eur. J.* **26**, 6635 (2020).  
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40. “Preparation, photophysical and electrochemical evaluation of an azaborondipyrromethene/zinc porphyrin/graphene supramolecular nanoensemble”,  
G. Rotas, M.B. Thomas, R. Canton-Vitoria, F. D’Souza, and N. Tagmatarchis,  
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A. Stergiou, R. Canton-Vitoria, M.N. Psarrou, S.P. Economopoulos, and N. Tagmatarchis,  
*Prog. Mater. Sci.* **114**, 100683 (2020).  
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44. “Carbon nanohorn-based electrocatalysts for energy conversion”,  
A. Kagkoura, N. Tagmatarchis,  
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45. “Boosting perovskite nanomorphology and charge transport properties via a functional D- $\pi$ -A organic layer at the absorber/hole transporter interface”,  
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## **2. Papers in Proceedings of International and National Conferences**

1. “Density functional calculations with lattice relaxation of field emitted currents”,

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2. “Analysis of physical and structural properties of alkali oxide-modified tellurite glasses”,

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3. “Synthesis and characterization of multilayered ZnO/glass/ZnO varistors”,

C.P.E. Varsamis, C. Valvi, N. Makris, and E.I. Kamitsos,

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4. “Functional surfaces of laser-microstructured silicon coated with polymer blends switching between hydrophilicity and hydrophobicity”,

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Proceedings of Conference on Lasers and Electro-Optics, OSA Technical Digest (Optical Society of America, 2020); San Jose, California, United States, May 10-15, 2020. Paper STh4H.4.

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## **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, T. Onishi (Eds), Springer, Singapore, 2020 Chapter 13, pp 465-513. ISBN: 978-981-15-0005-3, e-Book: [https://doi.org/10.1007/978-981-15-0006-0\\_13](https://doi.org/10.1007/978-981-15-0006-0_13)

2. “Chemoelectrical gas sensors of metal oxides with and without metal catalysts”, G.A. Mousdis, M. Kompitsas, G. Petropoulou, and P. Koralli, *Advanced Nanomaterials for Detection of CBRN*, J. Bonča and S. Kruchinin (Eds.), NATO Science for Peace and Security Series A: Chemistry and Biology. Springer, Dordrecht; 2020, Chapter 9.1, pp 135-148. ISBN 978-94-024-2029-6, ISBN 978-94-024-2030-2 (e-book)  
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3. “Functionalized carbon nanohorns as drug delivery platforms”, A. Stergiou, and N. Tagmatarchis, *Methods in Molecular Biology: Drug Delivery Systems*, T. Mavromoustakos, A. Tzakos and S. Durdagi (Eds.), Springer Nature B.V., The Netherlands; 2020, Chapter 2, pp. 13-24. ISBN: 978-1-0716-0920-0  
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4. “Novel block copolymers by RAFT polymerization: Synthesis and nanostructures formation in aqueous solutions”, A. Skandalis, M. Kafetzi, D. Giaouzi, T. Sentoukas, A. Papagiannopoulos, and S. Pispas, *Advances in Nanotechnology*, Vol. 24, Z. Bartul and J. Trenor (Eds.), Nova Scientific Publishers, 2020, Chapter 4, pp. 143-174. ISBN: 978-1-53618-460-0
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6. “Dynamics and physics of integrin activation in tumor cells by nano-sized extracellular ligands and electromagnetic fields”, A.C. Cefalas, V. Gavriil, A. Ferraro, Z. Kollia, and E. Sarantopoulou, *The Integrin Interactome*, Vicente-Manzanares, Miguel (Ed.), Springer Science Business Media, LLC, part of Springer Nature, pp.199-233 (First Online: November 2020).  
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<b>4. Books Authored</b>
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1. Dynamics and applications of photon-nanostructured systems”, E. Sarantopoulou, *Nanomaterials* (2020).  
ISBN 978-3-03943-328-5 (Hbk); ISBN 978-3-03943-329-2 (PDF)  
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## **5. Dissertations**

### **a. PhD theses**

1. “Development and applications of hybrid nanomaterials and nanostructured surfaces”,  
M. Kanidi,  
Supervisor: Dr. M. Kandyla, University of Patras, Department of Material Science (2020).
2. “Theoretical study and development of photonic devices and sensors”,  
A. Petropoulou,  
Supervisor: Dr. C. Riziotis, University of Peloponnese, Department of Informatics and Telecommunications (2020).

### **b. MSc theses**

1. “On the structure of lithium and strontium borate glasses modified with yttrium and rare-earth cations investigated by vibrational spectroscopy”,  
B. Topper,  
Supervisor: Professor D. Möncke, Inamori School of Engineering, New York State College of Ceramics, Alfred University, NY, USA, and E.I. Kamitsos, TPCI / National Hellenic Research Foundation (11/2020).
2. “Intercalation phenomena in kaolinite: New insights by vibrational spectroscopy”,  
F. Andreou,  
Supervisor: Dr. G.D. Chryssikos, National Technical University of Athens, School of Applied Mathematical and Physical Sciences (2020).  
<http://dx.doi.org/10.26240/heal.ntua.19974>
3. “Preparation and physicochemical characterization of perovskite / polymer hybrid materials”,  
P. Panagopoulou,  
Supervisor: Dr. G. Mousdis, National Technical University of Athens, School of Chemical Engineering (2020).
4. “Amphiphilic P(MMA-co-HPMA)-b-POEGMA block copolymers: Synthesis, characterization, self-assembly in aqueous solutions and encapsulation of drugs”,  
D. Selianitis,  
Supervisor: Dr. S. Pispas, National and Kapodistrian University of Athens, Department of Chemistry (2020).
5. “pH-responsive P(POEGMA-co-DIPAEMA) random copolymers: Synthesis, characterization, self-assembly in aqueous solutions and drug encapsulation”,  
C. Philippidis,  
Supervisor: Dr. S. Pispas, National and Kapodistrian University of Athens, Department of Chemistry (2020).

### **c. Honors theses**

1. “N-confused porphyrins – Ni-Complexes of N-confused tetraphenylporphyrin”,  
K. Gonianaki,  
Supervisor: Dr. D. Tzeli, National and Kapodistrian University of Athens, Department of Chemistry (2020).

### **d. Internships**

1. “On the structure of lithium and strontium borate glasses modified with yttrium and rare-earth cations investigated by vibrational spectroscopy”,

B. Topper,

Supervisors: Dr. E.I. Kamitsos, TPCI / National Hellenic Research Foundation and Prof. D. Möncke, Inamori School of Engineering, New York State College of Ceramics, Alfred University, NY, USA (January and February 2020).

2. “Synthèse et caractérisation physicochimique d’un nouveau composé hybride à base d’antimoine”,

Tlili Imen,

Supervisors: Dr. G. Mousdis, La Faculté des Sciences de Sfax, Sfax University (2020).

3. “Modification of rheological and physicochemical properties of biopolymer fluids by inclusion of metallic nanoparticles”,

A. Saltas,

Supervisor: Dr. A. Papagiannopoulos, National Technical University of Athens, School of Mining and Metallurgical Engineering (2020).

4. “Nanoparticle production based on proteins”,

A. Sklapani,

Supervisor: Dr. A. Papagiannopoulos, National Technical University of Athens, School of Applied Mathematical and Physical Sciences (2020).

## **6. Conference Presentations**

1. “DFT study of the photophysical processes of bodipy derivatives eliciting molecular logic gate response”,

D. Tzeli, I.D. Petsalakis, G. Theodorakopoulos,

New horizons in density functional theory; Faraday Discussion, Faraday Division of the Royal Society of Chemistry, Online Conference, September 2-4, 2020 (poster).

2. “Graphene based membranes for gas separation: A theoretical study”,

N.N. Lathiotakis,

IESL Seminar, IESL/FORTH, Heraklion Crete, December 2, 2020 (invited talk).



3. “Calculating the energy barriers for molecular permeation through sub-nanometer size pores in graphene”,  
N.N. Lathiotakis,  
Online workshop on Computational Materials Science, Department of Materials Science and Technology, University of Crete, and Hellenic Society for the Science and Technology of Condensed Matter, December 19-20, 2020 (invited talk).
4. “Synthesis and characterization of multilayered ZnO/glass/ZnO varistors”,  
C.P.E. Varsamis, C. Valvi\*, N. Makris, and E.I. Kamitsos,  
International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability (TMREES20), Athens - Greece, June 25-27, 2020 (oral).
5. “Covalent functionalization of exfoliated MoS<sub>2</sub> with organic motifs for the selective recognition of ions and molecules”,  
A. Stergiou\*, C. E. Stangel, and N. Tagmatarchis,  
17<sup>th</sup> International Conference on Nanoscience & Nanotechnologies (NN20), Thessaloniki, Greece, 7-10/7/2020 (invited).
6. “Ionic liquid modified MoS<sub>2</sub> sheets for energy conversion application”,  
D. K. Perivoliotis\*, C. Stangel, and N. Tagmatarchis,  
NanoteC20 – Carbon Nanoscience and Nanotechnology, Virtual Meeting, Surrey, UK, 25/8/2020 (e-poster).
7. “Sulfur-doped carbon nanohorns for hydrogen evolution and oxygen reduction reaction”,  
A. Kagkoura\*, and N. Tagmatarchis,  
NanoteC20 – Carbon Nanoscience and Nanotechnology, Virtual Meeting, Surrey, UK, 25/8/2020 (e-poster).
8. “Novel amphiphilic cationic block copolymers by RAFT and their complexes with DNA”,  
S. Pispas\*,  
1<sup>st</sup> Virtual European Polymer Conference, <https://sfill225.wixsite.com/polymerconference>, Abo Akademi University, Finland, 17-18/9/2020 (invited talk).
9. “Dehydration process of thermoresponsive molecular brushes with copolymer side chains”,  
J.-J. Kan\*, J. Zhao, L. C. Barnsley, F. Kohler, H. Dietz, S. Pispas, and C.M. Papadakis,  
DPG-Frühjahrstagung (DPG Spring Meeting), Dresden, Germany, 15-20/3/2020 (oral).
10. “Polymer block length and temperature effects on the nanoscale morphology of thermoresponsive double hydrophilic block copolymers”,  
A. Vagias\*, A. Papagiannopoulos, L.P. Kreuzer, D. Giaouzi, S. Busch, S. Pispas, and P. Müller-Buschbaum,  
MLZ User Meeting and German Neutron Scattering Conference,  
<https://indico.frm2.tum.de/event/225/>, Munich, Germany, 8-10/12/2020 (poster).

11. “Multilayers of chitosan-fibrinogen and their effect on cardiac tissue engineering”, M. Kitsara\*, A. Papagiannopoulos, G. Tassis, A. Simon, O. Agbulut, and S. Pispas, 11<sup>th</sup> World Biomaterials Conference (WBC2020), <https://wbc2020.org/>, 11-15/12/2020 (poster).
12. “Functional surfaces of laser-microstructured silicon coated with polymer blends switching between hydrophilicity and hydrophobicity”, M. Kanidi, A. Papagiannopoulos, A. Matei, M. Dinescu, S. Pispas, and M. Kandyla\*, Conference on Lasers and Electro-Optics (CLEO), <https://www.cleoconference.org/home/>, San Jose, CA USA, 5-2020 (oral).
13. “Polysaccharide/protein nanoparticles by biocompatible methods for the encapsulation of bioactive compounds”, A. Papagiannopoulos\*, International Webinar on Polymers, Plastics and Composites, 21-22/10/2020 (invited oral).
14. “Formation of nanoparticles from ethanol-denatured whey proteins”, T. Sentoukas\*, G. Charitou, J. Wagner, T. Moschakis, and A. Papagiannopoulos, ISEKI-e-conference on "Food Quality and Texture in Sustainable Production and Healthy Consumption", <https://www.iseki-food.net/events/iseki-e-conference-food-quality-and-texture-sustainable-production-and-healthy-consumption>, 18-19/11/2020 (oral).
15. “Photon-processed nanocavity networks regulate a thermodynamic-chaotic state interplay in 2D surfaces”, V. Gavriil\*, A.C. Cefalas, D. Christofilos, G. Kourouklis, Z. Kollia, and E. Sarantopoulou, Conference on Complex Systems 2020, Thessaloniki, Greece, December 4-11, 2020 (oral).
16. “The hypothesis of quantum coherent brain dynamics and human behavior, A.C. Cefalas\*, V. Gavriil, Z. Kollia, and E. Sarantopoulou, Conference on Complex Systems 2020, Thessaloniki, Greece, December 4-11, 2020 (oral).

<b>7. Popular Conference Presentations</b>
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1. “Χρήση της νανοτεχνολογίας για περισσότερο εύγευστο, υγιεινό και θρεπτικό φαγητό”, Α. Παπαγιαννόπουλος, Λαϊκό Πανεπιστήμιο, Διαλέξεις Χειμερινού Εξαμήνου 2020-2021, Αθήνα, Ελλάδα; Οκτώβρης 2020.