

***Curriculum Vitae***  
***Dr. Georgia C. Lainioti***  
***Chemist***

***Personal Information***

Name : Georgia  
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***Education***

- MSc in Advanced Technology Material Chemistry 2008-2010
- PhD in Chemistry, University of Patras. PhD thesis: «Kinetic study of the alcoholic fermentation in the presence of new biocatalysts» 2005-2009
- Diploma in Chemistry, University of Patras 2001-2005

***Work Experience***

- Laboratory Teaching Staff (EDIP) at the Department of Food Science & Technology, University of Patras, Greece 11/2022-today
- Laboratory Teaching Assistant (under contract P.D. 407/80) at University of Patras (Departments of Chemistry, Material Science, Biosystems and Agricultural Engineering), Greece. 2018-2022
- Secondary Chemistry Teacher at Ministry of Education, Greece. 09/2020-09/2021
- Post-doctoral researcher at Μεταδιδακτορική Ερευνήτρια στο Πανεπιστήμιο Πατρών University of Patras and Foundation for Research and Technology/ Institute of Chemical Engineering Sciences (FORTH/ICE-HT) Greece. 2010-2022

***Teaching Experience***

- Teaching of the course Biochemistry (Theory & Laboratory) and Organic Chemistry (Laboratory). 02/2023-today
- Laboratory Teaching Assistant (under contract **P.D. 407/80**) at the Department of Biosystems and Agricultural Engineering at University of Patras for the course Applied Thermodynamics and Transport Phenomena (theory). 03/2022-06/2022
- Laboratory Teaching Assistant (under contract **P.D. 407/80**) at the Department of Chemistry at University of Patras for the course Experimental Physical Chemistry I (laboratory). 03/2022-06/2022
- Secondary Chemistry Teacher at Ministry of Education, Greece. 09/2020-09/2021
- Laboratory Teaching Assistant (under contract **P.D. 407/80**) at the Department of Material Science at University of Patras for the course Chemistry II (laboratory). 06/2020-07/2020
- Laboratory Teaching Assistant (under contract **P.D. 407/80**) at the Department of Biosystems and Agricultural Engineering at University of Patras for the course Organic Chemistry (laboratory). 03/2020-08/2020
- Laboratory Teaching Assistant (under contract **P.D. 407/80**) at the Department of 11/2019-12/2019

Material Science at University of Patras for the course Physical Chemistry and Material Science IV (laboratory).

- Laboratory Teaching Assistant (under contract **P.D. 407/80**) at the Department of Material Science at University of Patras for the course Chemistry II (laboratory). 03/2019-06/2019
- Laboratory Teaching Assistant (under contract **P.D. 407/80**) at the Department of Chemistry at University of Patras for the course Chemical Technology I (laboratory). 03/2018-06/2018
- Assistant at the Laboratory of Polymer Science of the Chemistry Department at the University of Patras. 2013-2016
- Laboratory for the course "Polymer Structure and Properties" at the students of the fourth year of the Chemistry Department at the University of Patras. 2010-2016
- Laboratory for the course "Physical Chemistry III" at the students of the second year of the Chemistry Department at the University of Patras. 2005-2009
- Laboratory for the course "Physical Chemistry IV" at the students of the second year of the Chemistry Department at the University of Patras. 2006-2009

### ***Research Experience***

- Research at the Food Laboratory of the Department of Food Science & Technology of the University of Patras within the project **Food Packaging Membranes with Controlled Antimicrobial and Antioxidant Action**. 01/2023-today
- Post-doctoral research at Laboratory of Sedimentology, Department of Chemistry, University of Patras in the frames of **Development of Guidelines, Protocol for Environmental Monitoring of Aquaculture Units - Application of Environmental Simulation Model - Assessment of Environmental Footprint in the Marine Ecosystem - Pilot Implementation** (F.K.: 81676). 02/2022-03/2022
- Post-doctoral research at Advanced Polymers & Hybrid Nanomaterials Research Laboratory, Department of Chemistry, University of Patras in the frames of **BIONET (MIS: 5010930): Development of Organic Biocidal Coatings for Aquaculture Nets**. 10/2021-01/2022
- Post-doctoral research at Advanced Polymers & Hybrid Nanomaterials Research Laboratory, Department of Chemistry, University of Patras in the frames of **BIONET (MIS: 5010930): Development of Organic Biocidal Coatings for Aquaculture Nets**. 03/2019-02/2020
- Post-doctoral research in the frames of **AENAO** project (MIS: 5002556): **Materials and Procedures for Energy and Environmental Applications**, Foundation for Research and Technology/ Institute of Chemical Engineering Sciences (FORTH/ICE-HT) Greece. Research object: POLYMERIC GAS SEPARATION MEMBRANES. 01/2018-present
- Post-doctoral research at Advanced Polymers & Hybrid Nanomaterials Research Laboratory, Department of Chemistry, University of Patras in the frames of **PAVET 2013** project (837-BET-2013): **Novel Polymeric Biocidal Materials as Alternative** 03/2016-07/2016

### **Biofouling-Resistant Coatings of Aquaculture Nets.**

- Post-doctoral research in the frames of **NANOBARRIER** project (280759-2): 01/2016-02/2016  
**Extended shelf-life biopolymers for sustainable and multifunctional food packaging solutions**, Foundation for Research and Technology/ Institute of Chemical Engineering Sciences (FORTH/ICE-HT) Greece.
- Post-doctoral research in the frames of **WOOD-FLARETCOAT** project (315423): 07/2015-12/2015  
**Flame-retardant coatings based on nano-magnesium hydroxide, huntite and hydromagnesite for wood applications**, Foundation for Research and Technology/ Institute of Chemical Engineering Sciences (FORTH/ICE-HT) Greece.
- Post-doctoral research in the frames of **PROENYL** project (MIS: 448305): **Advanced Energy Materials**, Foundation for Research and Technology/ Institute of Chemical Engineering Sciences (FORTH/ICE-HT) Greece. 10/2014-06/2015
- Post-doctoral research at Advanced Polymers & Hybrid Nanomaterials Research Laboratory, Department of Chemistry, University of Patras in the frames of **THALES** project (MIS 379523): **Design and Development of Novel Functional Copolymers with a Block Architecture-Self-organization Abilities and Controlled Binding/Release of Biocidal Species**. 09/2012-03/2015
- Post-doctoral research in the frames of **NANOBARRIER** project (280759-2): 04/2012-09/2012  
**Extended shelf-life biopolymers for sustainable and multifunctional food packaging solutions**, Foundation for Research and Technology/ Institute of Chemical Engineering Sciences (FORTH/ICE-HT) Greece.
- Post-doctoral research in the frames of **BIONEXGEN** project (FP7-NMP-2009 246039-2): **Development of the next generation membrane bioreactor system**, Foundation for Research and Technology/ Institute of Chemical Engineering Sciences (FORTH/ICE-HT) Greece. 02/2012-04/2012
- Post-doctoral research in the frames of **SYNERGASIA** project (09EYN-82-1156): 03/2011-03/2012  
**Development of Advanced Multifunctional Non-Woven Products**, Foundation for Research and Technology/ Institute of Chemical Engineering Sciences (FORTH/ICE-HT) Greece.
- Post-doctoral research at the Laboratory of Physical Chemistry Department of Chemistry, University of Patras. 10/2010-09/2011

### **Research Activities**

- Synthesis of porous polymeric membranes.
- Synthesis of functional copolymers with biocidal species and preparation of antibacterial membranes
- Synthesis of hybrid polymeric nanoparticles through emulsion polymerization.
- Preparation of polymer functionalized carbon nanotubes with antimicrobial properties.
- Polymer blends- Compatibilization by reactive processing.

## ***Experience in Techniques***

- Analysis of samples with Ultraviolet-Visible Spectroscopy (UV-VIS), Attenuated total reflectance Fourier transform infrared (ATR-FTIR), Nuclear Magnetic Resonance Proton Resonance (<sup>1</sup>H NMR), Photoluminescence (PL)
- Structural characterization using X-ray diffraction (XRD)
- Gel permeation chromatography (GPC) for organosoluble and water-soluble polymers
- Thermogravimetric analysis (TGA)
- Dynamic mechanical analysis (DMA)
- Tensile tests
- Scanning Electron Microscopy (SEM)
- Gas Chromatography (GC) and Reversed-Flow flow gas chromatography (RFGC)
- Field-Flow Fractionation (FFF)
- Microbiology techniques (Microbial cultivation and growth)
- Determination of antioxidant activity based on DPPH free radical scavenging capacity
- 10L Pilot Reactor with temperature control system

## ***Publications***

1. **G.Ch. Lainioti**, J. Kapos, A. Koliadima G. Karaiskakis. New separation methodologies for the distinction of the growth phases of *Saccharomyces cerevisiae* cell cycle. *Journal of Chromatography A*, 1217 (2010) 1813-1820.
2. **G.Ch. Lainioti**, J. Kapos, G. Karaiskakis, A. Koliadima. Kinetic study of the alcoholic fermentation process, in the presence of free and immobilized *Saccharomyces cerevisiae* cells, at different initial glucose concentrations by Reversed Flow GC. *Chromatographia*, 72 (2010) 1149-1156.
3. **G.Ch. Lainioti**, J. Kapos, A. Koliadima, G. Karaiskakis. The study of the effect of fermentation temperature on the growth kinetics of *Saccharomyces cerevisiae* yeast strain, in the presence or absence of support, by chromatographic techniques. *Journal of Liquid Chromatography & Related Technologies*, 34 (2011) 195-208.
4. **G.Ch. Lainioti**, J. Kapos, G. Karaiskakis, A. Koliadima. Influence of pH and initial glucose concentration on the growth of *Saccharomyces cerevisiae* yeast strain by Gravitational Field Flow Fractionation. *Separation Science and Technology*, 46 (2011) 893-903.
5. **G.Ch. Lainioti**, J. Kapos, G. Karaiskakis, A. Koliadima. The study of the influence of temperature and initial glucose concentration on the fermentation process in the presence of *Saccharomyces cerevisiae* yeast strain immobilized on starch gels by Reverse-Flow Gas Chromatography. *Preparative Biochemistry and Biotechnology*, 42(5) (2012) 489-506.

6. **G.Ch. Lainioti**, G. Karaiskakis. New approaches to the kinetic study of alcoholic fermentation by chromatographic techniques. *Journal of Chromatographic Science*, 51(8) (2013) 764-779.
7. **G.Ch. Lainioti**, J. Kapos, A. Koliadima, G. Karaiskakis. Comparative Study of the Kinetic Approach on the Alcoholic Fermentation Procedure Conducted in Laboratory and Scale-up Systems by Inverse Gas Chromatography. *Acta Chromatographica* 26(2) (2014) 371-389.
8. V. Deimede, A. Voegelé, **G. Lainioti**, C. Elmasides, J.K. Kallitsis. Large-Scale Separators Based on Blends of Aromatic Polyethers with PEO for Li-Ion Batteries: Improving Thermal Shrinkage and Wettability Behavior. *Energy Technology*, 2(3) (2014) 275-283.
9. N.D. Koromilas, **G.Ch. Lainioti**, E.K. Oikonomou, G. Bokias, J.K. Kallitsis. Synthesis and self-association in dilute aqueous solution of hydrophobically modified polycations and polyampholytes based on 4-vinylbenzyl chloride. *European Polymer Journal* 54 (2014) 39-51.
10. N.D. Koromilas, **G.Ch. Lainioti**, Ch. Gialeli, D. Barbouri, K.B. Kouravelou, N.K. Karamanos, G.A. Voyiatzis, J.K. Kallitsis. Preparation and Toxicological Assessment of Functionalized Carbon Nanotube-Polymer Hybrids. *Plos One*, 9(9) (2014) e107029.
11. A. Moutsipoulou, A. Andreopoulou, **G. Lainioti**, G. Bokias, G. Voyiatzis, J. Kallitsis. Quinoline-functionalized cross-linked poly(vinyl acetate) and poly(vinyl alcohol) nanoparticles as potential pH-responsive luminescent sensors. *Sensors and Actuators B: Chemical*, 211 (2015) 235-244.
12. V. Bekiari, K. Nikolaou, N. Koromilas, **G. Lainioti**, P. Avramidis, G. Hotos, J. K. Kallitsis, G. Bokias. Release of Polymeric Biocides from Synthetic Matrices for Marine Biofouling Applications. *Agriculture and Agricultural Science Procedia*, 4 (2015) 445-450.
13. E. Kougia, M. Tselepi, G. Vasilopoulos, **G.Ch. Lainioti**, N.D. Koromilas, D. Druvari, G. Bokias, A. Vantarakis, J.K. Kallitsis. Evaluation of Antimicrobial Efficiency of New Polymers Comprised by Covalently Attached and/or Electrostatically Bound Bacteriostatic Species, Based on Quaternary Ammonium Compounds. *Molecules*, 20 (2015) 21313-21327.
14. N.D. Koromilas, **G.Ch. Lainioti**, G. Vasilopoulos, A. Vantarakis J.K. Kallitsis. Synthesis of antimicrobial block copolymers bearing immobilized biocidal groups. *Polymer Chemistry*, 7 (2016) 3562-3575.
15. **G.Ch. Lainioti**, I. Bounos, G.A. Voyiatzis, J.K. Kallitsis. Breathable Membranes based on Melt Blending of Polystyrene sulfonate with Polyethylene copolymers and Their CNT Nanocomposites. *Polymers*, 8(5), (2016) 190, DOI:10.3390/polym8050190.
16. D. Druvari, N.D. Koromilas, **G.Ch. Lainioti**, G. Bokias, G. Vasilopoulos, A. Vantarakis, I. Baras, N. Dourala, J.K. Kallitsis. Polymeric quaternary ammonium-containing coatings with potential dual contact-based and release-based antimicrobial activity. *ACS Applied Materials & Interfaces*, 8(51) (2016) 35593-35605.
17. D. Saranti-Karamessini, **G.Ch. Lainioti**, V. Deimede, J.K. Kallitsis. Porosity control in aromatic polyether/ water soluble polymers' membranes. *Journal of Applied Polymer Science*, 134 (9) (2017) DOI: 10.1002/app.44539.
18. G. Bounos, K.S. Andrikopoulos, H. Moschopoulou, **G.Ch. Lainioti**, D. Roilod, R. Checchettod, Th. Ioannides, J.K. Kallitsis, G.A. Voyiatzis. The Enhancing water vapor permeability in mixed matrix polypropylene membranes through carbon nanotubes dispersion. *Journal of Membrane Science*, 524 (2017) 576-584.
19. I. Tzoumani, **G.C. Lainioti**, A.J. Aletras, G. Zainescu, S. Stefan, A. Meghea, J.K. Kallitsis. Modification of collagen derivatives with water-soluble polymers for the development of cross-linked hydrogels for controlled release. *Materials*, 12 (2019) 4067.

20. **G.Ch. Lainioti**, P. Savva, D. Druvari, P. Avramidis, D. Panagiotaras, E.I.E. Karellou, J.K. Kallitsis. Cross-linking of antimicrobial polymers with hexamethylene diamine to prevent biofouling in marine applications of biocidal polymers with hexamethylenediamine for antifouling applications. *Progress in Organic Coatings*, 157 (2021) 106336.
21. **G.C. Lainioti**, A. Tsapikouni, D. Druvari, P. Avramidis, I. Prevedouros, A. Glaropoulos, J.K. Kallitsis. Environmentally Friendly Cross-Linked Antifouling Coatings Based on Dual Antimicrobial Action. *International Journal of Molecular Sciences*, 22 (2021) 4658.
22. D. Druvari, A. Antonopoulou, **G.Ch. Lainioti**, A. Vlamis-Gardikas, G. Bokias and J.K. Kallitsis. Antimicrobial coatings derived from cross-linked copolymers containing quaternary dodecylammonium compounds. *International Journal of Molecular Sciences*, 22(24) (2021) 13236.
23. K.S. Andrikopoulos, G. Bounos, **G.C. Lainioti**, T. Ioannides J.K. Kallitsis, G.A. Voyiatzis. Flame Retardant Nano-Structured Fillers from Huntite/Hydromagnesite Minerals. *Nanomaterials*, 12(14) (2022) 2433.
24. **G.C. Lainioti**, V. Koukoumtzis, K.S. Andrikopoulos, L. Tsantaridis, B. Östman, G.A. Voyiatzis, J.K. Kallitsis. Environmentally Friendly Hybrid Organic-Inorganic Halogen-Free Coatings for Wood Fire-Retardant Applications. *Polymers*, 14(22) (2022) 4959.
25. D. Druvari, F.Kyriakopoulou, **G.C. Lainioti**, A. Vlamis-Gardikas, J.K. Kallitsis. Humidity-responsive antimicrobial membranes based on cross-linked copolymers functionalized with ionic liquids. *ACS Applied Materials & Interfaces*, 15(8) (2023) 11193–11207.
26. K. Safakas, I. Giotopoulou, A. Giannakopoulou, K. Katerinopoulou, **G.C. Lainioti**, H. Stamatis, N.-M. Barkoula, A. Ladavos. Designing Antioxidant and Antimicrobial Polyethylene Films with Bioactive Compounds/Clay Nanohybrids for Potential Packaging Applications. *Molecules*, 28 (2023) 2945.
27. D. Druvari, **G.C. Lainioti**, V. Bekiari, P. Avramidis, J.K. Kallitsis, G. Bokias. Development of organic antifouling coatings through an eco-friendly Layer-by-Layer methodology. *International Journal of Molecular Sciences*, 24(7) (2023) 6594.
28. V. Koukoumtzis, **G.C. Lainioti**, G.A. Voyiatzis, J.K. Kallitsis. Novel hybrid organic-inorganic polymeric coatings containing phosphorus or acid for improving flame retardancy of wood. *Coatings*, 2023.

## **Patent**

Application for Greek patent grant (2012): Development of Porous Membranes by Blending of Aromatic Polyethers with Water Soluble Polymers for Application as Separators in Lithium Batteries.

C. Elmasides, A. Voegelé, J. K. Kallitsis, V. Deimede, **G. Lainioti**

## **Seminar Attendance**

- Intensive courses of assurance and quality (ISO-HACCP), 12-13 January 2006, Patras.
- Seminar for laboratory accreditation according to the international standard ISO/IEC 17025, Association of Greek Chemists, 35 hours, 17-20 October 2007, Athens.
- Seminar for Electron Microscopy: “Latest Advances in Electron Microscopy”, Foundation for Research and Technology/ Institute of Chemical Engineering Sciences (FORTH/ICE-HT), Patras, Greece, 2015.

### ***Publications in International Conferences***

1. Development of antimicrobial polymeric coatings through water-based processing  
Denisa Druvari, Ioanna Tzoumani, **Georgia Lainioti**, Vlasoula Bekiari, Pavlos Avramidis, Alexios Vlamis, Georgios Bokias and Joannis K. Kallitsis  
EUROMAT 2021, 13-17 September 2021, Virtual Conference.
2. Antimicrobial coatings based on quaternized ammonium copolymers.  
N. Koromilas, D. Druvari, **G. Ch. Lainioti**, G. Bokias, J. Kallitsis  
Bordeaux Polymer Conference, 28-31 May 2018, Bordeaux, France.
3. Development of Polymeric Biocidal Coatings.  
N.D. Koromilas, D. Druvari, G. Ch. Lainioti, G. Bokias, J. K. Kallitsis  
11th FORTH Retreat, 13–14 October 2017, Heraclion, Crete.
4. Antimicrobial Surfaces Based on Blends of Quaternary Ammonium Groups Containing Copolymers.  
N.D. Koromilas, D. Druvari, **G.Ch. Lainioti**, G. Bokias, J.K. Kallitsis  
Eurofillers - Polymer Blends 2017, 23-27 April 2017, Heraklion Crete, Greece.
5. Polymeric quaternary ammonium-containing coatings with antimicrobial and antifouling activity.  
D. Druvari, N.D. Koromilas, **G.Ch. Lainioti**, G. Bokias, J.K. Kallitsis  
Smart Coatings 2017, 22-24 February 2017, Orlando, Florida, USA.
6. Antimicrobial block copolymers bearing quaternized ammonium groups and their self-organization in organic solvents.  
N. D. Koromilas, **G. Ch. Lainioti**, G. Bokias, J. K. Kallitsis  
13<sup>th</sup> International Conference on Nanosciences & Nanotechnologies (NN16), 5-8 July 2016, Thessaloniki, Greece.
7. Bactericidal activities of new polymeric materials, tested on environmental strains isolated from sea and pool water.  
Tselepi M., Vasilopoulos G., **Lainioti G.**, Koromilas N.D., Bokias G., Kallitsis J., Vantarakis A.  
38<sup>th</sup> SOMED Congress, Society for Microbial Ecology and Disease, 11-13 October 2015, Verona, Italy.
8. Polymeric biocides as inhibitors of biofouling in marine applications.  
K. Nikolaou, N. Koromilas, V. Bekiari, P. Avramidis, G. Hotos, **G. Lainioti**, J.K. Kallitsis and G. Bokias  
14<sup>th</sup> International Conference on Environmental Science and Technology (CEST2015), 3-5 September 2015, Rhodes, Greece.
9. Nanomorphology control of polymer blends with biocidal groups.  
D. Druvari, N.D. Koromilas, **G.Ch. Lainioti**, G. Bokias, J.K. Kallitsis  
12<sup>th</sup> International Conference on Nanosciences & Nanotechnologies (NN15), 7-10 July 2015, Thessaloniki, Greece.
10. Development of polymeric membranes to separate gas mixtures.  
K. Lebotesis, **G.Ch. Lainioti**, V. Deimede, T. Ioannides, J.K. Kallitsis  
12<sup>th</sup> International Conference on Nanosciences & Nanotechnologies (NN15), 7-10 July 2015, Thessaloniki, Greece.
11. Nano-based methodology for the evaluation of biocide released kinetics.  
G. Mathioudakis, A. Soto Beobide, N. D. Koromilas, **G. Ch. Lainioti**, J. K. Kallitsis, G. A. Voyiatzis  
12<sup>th</sup> International Conference on Nanosciences & Nanotechnologies (NN15), 7-10 July 2015,

- Thessaloniki, Greece.
12. Porosity control in aromatic polyether/ water soluble polymers' membranes.  
**G.Ch. Lainioti**, D. Saranti-Karamesini, V. Deimede, J. K. Kallitsis  
Frontiers in Polymer Science, 20-22 May 2015, Riva del Garda, Italy.
  13. Flame-retardant coatings based on magnesium hydroxide and phosphorus compounds for wood applications.  
V.T. Koukoumtzis, **G.Ch. Lainioti**, G.A. Voyiatzis, J.K. Kallitsis  
10<sup>th</sup> Hellenic Polymer Society Conference (10th HPSC), 4-6 December 2014, Rio-Patras, Greece.
  14. Synthesis of block antimicrobial copolymers with ionic and immobilized groups,  
N.D. Koromilas, **G.Ch. Lainioti**, G. Bokias, J.K. Kallitsis  
10<sup>th</sup> Hellenic Polymer Society Conference (10th HPSC), 4-6 December 2014, Rio-Patras, Greece.
  15. Preparation of PSF blends with polymers bearing biocidal groups.  
D. Druvari, N.D. Koromilas, **G.Ch. Lainioti**, G. Bokias, J.K. Kallitsis  
10<sup>th</sup> Hellenic Polymer Society Conference (10th HPSC), 4-6 December 2014, Rio-Patras, Greece.
  16. Evaluation of the release rate of biocide polymers from films utilizing SERS and UV-Vis absorption measurements.  
Georgios Mathioudakis, A. Soto Beobide, N. D. Koromilas, **G.Ch. Lainioti**, J. K. Kallitsis, G. A. Voyiatzis  
10<sup>th</sup> Hellenic Polymer Society Conference (10th HPSC), 4-6 December 2014, Rio-Patras, Greece.
  17. Evaluation of antimicrobial efficiency of new polymers.  
E. Kougia, G. Vasilopoulos, **G. Lainioti**, N.D. Koromilas, G. Bokias, J. Kallitsis, A. Vantarakis  
International Conference on Antimicrobial Research - ICAR2014, 1-3 October 2014, Madrid, Spain.
  18. Release of polymeric biocides from synthetic matrices for marine biofouling applications.  
K. Nikolaou, N. Koromilas, **G. Lainioti**, P. Avramidis, V. Bekiari  
IRLA2014 International Symposium, 26-28 November 2014, Patras, Greece.
  19. Development of biocidal copolymers.  
N.D. Koromilas, **G.Ch. Lainioti**, G. Bokias, A. Vantarakis, E. Kougia, J.K. Kallitsis  
3<sup>rd</sup> International Symposium on Controlled/Living Polymerization, 1-4 May 2014, Antalya, Turkey.
  20. Development of polymeric membranes with high performance polymers and modified Carbon Nanotubes.  
**G.Ch. Lainioti**, N. Koromilas, D. Saranti-Karamesini, G.A. Voyiatzis, J. Kallitsis  
Nanomemwater Conference, 8-10 October 2013, Izmir, Turkey.
  21. Assessment of the multi-walled carbon nanotubes dispersion in polypropylene matrix using Raman spectroscopy.  
G. Bounos, H Moshopoulou, **G Lainioti**, KS Andrikopoulos, T. Ioannides, JK. Kallitsis and GA. Voyiatzis,  
E-MRS 2013 Fall Meeting, 16-20 September, 2013, Warsaw, Poland.
  22. Synthesis of novel biocidal copolymers and their carbon nanotube hybrids.  
N.Koromilas, **G.Ch. Lainioti**, G. Bokias, G.A. Voyiatzis, J. K. Kallitsis  
10<sup>th</sup> International Conference on Nanosciences & Nanotechnologies (NN13), 9-12 July 2013, Thessaloniki, Greece.
  23. Emulsion polymerization for the control of nanoparticles' structure and dimensions.  
A. Athanopoulou, **G.Ch. Lainioti**, M. Karamitrou, G. Bokias, J. Kallitsis  
9<sup>th</sup> Hellenic Polymer Society Conference, 29 November – 1 December 2012, Thessaloniki, Greece.
  24. Double hydrophilic anionic/thermosensitive diblock copolymers having associating ability with



- cationic surfactants.  
E.K. Oikonomou, **G. Lainioti**, G. Bokias, I. Iliopoulos, J.K. Kallitsis  
9<sup>th</sup> Hellenic Polymer Society Conference, 29 November – 1 December 2012, Thessaloniki, Greece.
25. Embedment of functionalized Carbon Nanotubes into water purification membranes.  
A. Soto Beobide, J. Anastasopoulos, D. Sklavounaki, G.A. Voyiatzis, N.Koromilas, **G.Ch. Lainioti**, J. Kallitsis, K. Kouravelou  
Euromembrane Conference 2012, 23-27 September 2012, London, UK.
26. Toxicological assessment of polymer-modified Carbon Nanotubes.  
Ch. Gialeli, N.Koromilas, **G.Ch. Lainioti**, K.B Kouravelou, G.A. Voyiatzis, N.K. Karamanos, J. Kallitsis  
9<sup>th</sup> International Conference on Nanosciences & Nanotechnologies (NN12), 3-6 July 2012, Thessaloniki, Greece.
27. The dispersion of multi-walled carbon nanotubes in polyolefines probed by Raman spectroscopy.  
G. Bounos, K.S. Andrikopoulos, **G. Lainioti**, J.K. Kallitsis, T.K Karachalios, K.B Kouravelou, G.A. Voyiatzis  
9<sup>th</sup> International Conference on Nanosciences & Nanotechnologies (NN12), 3-6 July 2012, Thessaloniki, Greece.
28. The gravitational field-flow fractionation (GrFFF) for the study of the effect of fermentation temperature and pH on the growth kinetics of Saccharomyces cerevisiae yeast strain.  
**G.Ch. Lainioti**, L. Farmakis, J. Kapolos, A. Koliadima, G. Karaiskakis  
14<sup>th</sup> International Symposium on Field- and Flow- based Separations (FFF), 5-8 July 2009, Rio, Patras, Greece.
29. Determination of diffusion coefficients of air pollutants (SO<sub>2</sub>, NO<sub>x</sub>) in artificial sea water at different temperatures in the absence and the presence of surfactants.  
D. Sevastos, J. Kapolos, **G. Lainioti**, L. Farmakis, A. Koliadima, G. Karaiskakis  
4<sup>th</sup> International Conference on Diffusion in Solids and Liquids, 9-11 July 2008, Barcelona, Spain.
30. Kinetic Study of Alcoholic Fermentation in the Presence or Absence of Novel Biocatalysts by Reversed Flow Gas Chromatography.  
**G.Ch. Lainioti**, J. Kapolos, L. Farmakis, G. Karaiskakis and A. Koliadima  
9<sup>th</sup> International Hydrocolloids Conference, 15-19 June 2008, Singapore.
31. Study of the influence of surfactants on the absorption mechanism of SO<sub>2</sub> into water by Reversed Flow Gas Chromatography.  
**G. Lainioti**, L. Farmakis, J. Kapolos, A. Koliadima, G. Karaiskakis  
28<sup>th</sup>-ICST, 5-6 July 2007, Prague, Czech Republic.
32. Study of the growth rate of Saccharomyces cerevisiae strains using wheat starch granules as support for yeast immobilization monitoring by Sedimentation/Steric Field-Flow Fractionation.  
J. Kapolos, L. Farmakis, **G. Lainioti**, A. Koliadima, G. Karaiskakis  
28<sup>th</sup>-ICST, 5-6 July 2007, Prague, Czech Republic.
33. Physicochemical characterization of acrylic polymeric resin and low molecule siloxane coating materials of artistic interest.  
A. Koliadima, N. Bakaoukas, J. Kapolos, **G. Lainioti** and G. Karaiskakis  
1<sup>st</sup> International CEMEPE Conference, 24–28 June 2007, Skiathos, Greece.

**Publications in Hellenic Conferences**

1. Development of dual action crosslinked polymeric antimicrobial coatings  
Ioanna Tzoumani, **Georgia Ch. Lainioti**, Alexios J. Aletras, Joannis K. Kallitsis  
Cross-linked Network Hydrogels Based on Leather Collagen Hydrolysates Modified by Non-toxic P(SSNa-co-GMAx) Copolymers  
5<sup>th</sup> Workshop of Graduates & Post-Docs in Chemical Engineering Sciences Patras, 6 November 2019.
2. Development of dual action crosslinked polymeric antimicrobial coatings  
Denisa Druvari, Nikos Koromilas, **Georgia Lainioti**, Georgios Bokias and Joannis Kallitsis  
3<sup>rd</sup> Workshop of Graduates and Post-Docs in Chemical Engineering Sciences (CES-WGP3), Patras, Greece, 2017.
3. Development of polymeric nanocomposite membranes for various applications.  
**Georgia Ch. Lainioti**  
1<sup>st</sup> Workshop of Graduates and Post-Docs (FORTH/ICE-HT WGP1), 27 May 2015, Patras, Greece.
4. Preparation of PSF blends with polymers bearing biocidal groups.  
Denisa Druvari, Nikos D. Koromilas, **Georgia Ch. Lainioti**, George Bokias, Joannis K. Kallitsis  
1<sup>st</sup> Workshop of Graduates and Post-Docs (FORTH/ICE-HT WGP1), 27 May 2015, Patras, Greece.
5. Flame-retardant coatings based on magnesium hydroxide and phosphorus compounds for wood applications.  
Vasilis T. Koukoumtzis, **Georgia Ch. Lainioti**, George A. Voyiatzis, Joannis K. Kallitsis  
1<sup>st</sup> Workshop of Graduates and Post-Docs (FORTH/ICE-HT WGP1), 27 May 2015, Patras, Greece.
6. Synthesis of block antimicrobial copolymers with ionic and immobilized groups.  
Nikos D. Koromilas, **Georgia Ch. Lainioti**, Georgios Bokias, Joannis K. Kallitsis  
1<sup>st</sup> Workshop of Graduates and Post-Docs (FORTH/ICE-HT WGP1), 27 May 2015, Patras, Greece.
7. Nano-based Methodology for the Evaluation of Biocide Release Kinetics.  
G. Mathioudakis, A. Soto Beobide, N. D. Koromilas, **G. Ch. Lainioti**, J. K. Kallitsis, G. A. Voyiatzis  
1<sup>st</sup> Workshop of Graduates and Post-Docs (FORTH/ICE-HT WGP1), 27 May 2015, Patras, Greece.
8. Release evaluation of biocide polymers from PMMA films using SERS and UV-Visible Measurements.  
G. Mathioudakis, A. Soto Beobide, N. D. Koromilas, **G. Ch. Lainioti**, J. K. Kallitsis, G. A. Voyiatzis  
10<sup>o</sup> Πανελλήνιο Συνέδριο Χημικής Μηχανικής (10ο ΠΕΣΧΜ), 4-6 Ιουνίου 2015, Πάτρα.
9. ΕΚΤΙΜΗΣΗ ΤΗΣ ΑΝΤΙΜΙΚΡΟΒΙΑΚΗΣ ΔΡΑΣΗΣ ΝΕΩΝ ΠΟΛΥΜΕΡΩΝ.  
Μ. Τσελεπή, Γ. Βασιλόπουλος, Ε. Κούγια, **Γ. Λαϊνιώτη**, Ν.Δ. Κορομηλάς, Γ. Μπόκιας, Α. Βανταράκης, Ι.Κ. Καλλίτσης  
5<sup>o</sup> Πανελλήνιο Συνέδριο του Φόρουμ Δημόσιας Υγείας Και Κοινωνικής Ιατρικής, 21-23 Νοεμβρίου 2014, Ξενοδοχείο Porto Palace, Θεσσαλονίκη.
10. Διερεύνηση της εφαρμογής πολυμερικών βιοστατικών για την αποτροπή θαλάσσιας βιοσυσσώρευσης.  
Κωνσταντίνος Νικολάου, Νικόλαος Κορομηλάς, **Γεωργία Λαϊνιώτη**, Βλασούλα Μπεκιάρη, Παύλος Αβραμίδης, Γεώργιος Χώτος, Ιωάννης Κ. Καλλίτση και Γεώργιος Μπόκιας,  
10<sup>o</sup> Πανελλήνιο Συνέδριο Χημικής Μηχανικής (10ο ΠΕΣΧΜ), 4-6 Ιουνίου 2015, Πάτρα.
11. Kinetic study of *Saccharomyces cerevisiae* growth in the presence and the absence of immobilization support by sedimentation/steric field-flow fractionation.  
**G. Lainioti**, L. Farmakis, J. Kapolos, A. Koliadima, G. Karaiskakis, 2nd Hellenic Conference on

Biotechnology and Food Technology, 29-31 March 2007, Athens, Greece.

12. Chromatographic study of the adsorption of SO<sub>2</sub> in water in the presence of surface active agents.

**G. Lainioti**, A. Koliadima, G. Karaiskakis, 12<sup>th</sup> Postgraduate Conference of the University of Crete, 7-10 July 2006, Santorini, Greece.

### **Participation in Research Projects**

- **“New immobilized biocatalysts for the increase of production, improvement of wine quality and their industrialization in wine making”**, GSRT/PENED 03ED657, (2005-2008).
- **“Modeling and simulation of physicochemical processes in the atmosphere in order to control and forecast the atmospheric pollution”**, Greece at the Poles, (2006–2008).
- **“Development of the next generation membrane bioreactor system”**, BioNexGen, FP7-NMP-2009 246039-2, (2010-2014).
- **“Development of Advanced Multifunctional Non-Woven Products”**, SYNERGASIA , GSRT/NSRF 2007-2013, (2011-2013).
- **“Extended shelf-life biopolymers for sustainable and multifunctional food packaging solutions, NANOBARRIER**, FP7-NMP-2011-LARGE-5, 280759-2 (2012-2015).
- **“Design and Development of Novel Functional Copolymers with a Block Architecture–Self-organization Abilities and Controlled Binding/Release of Biocidal Species”** (MIS 379523), GSRT Thales 12/44/5, (2012-2015).
- **“Advanced Energy Materials” PROENYL** (MIS: 448305), GSRT KRIPIS action, (2013-2015).
- **“Novel Polymeric Biocidal Materials as Alternative Biofouling-Resistant Coatings of Aquaculture Nets”**, PAVET 2013 (837-BET-2013), GSRT/NSRF 2007-2013, (2014-2015).
- **“Flame-retardant coatings based on nano-magnesium hydroxide, huntite and hydromagnesite for wood applications”**, WOOD-FLARETCOAT, FP7-SME-2012, 315425, (2014-2015).
- **“Materials and Procedures for Energy and Environmental Applications”**, AENAO (MIS: 5002556), GSRT, EPAnEk– NSRF 2014-2020.
- **“Development of Organic Biocidal Coatings for Aquaculture Nets”**, BIONET (MIS: 5010930), “FISHERIES 2014-2020” & the European Maritime and Fisheries Fund.
- **“Development of Guidelines, Protocol for Environmental Monitoring of Aquaculture Units - Application of Environmental Simulation Model - Environmental Footprint Assessment in the Marine Ecosystem - Pilot Implementation”**, F.K.: 81676, Hellenic Aquaculture Producers Organization.
- **Food packaging films with controlled antimicrobial and antioxidant activity”**, AntiMicrOxiPack, T6YVII-00232 MIS: 5109529, F.K.: 81701, GENERAL SECRETARIAT FOR RESEARCH AND INNOVATION.

***Additional Skills***

- English ability** : Cambridge First Certificate, Michigan Proficiency
- French ability** : Delf 1 (1<sup>er</sup> Degree), Delf 2 (2<sup>em</sup> Degree)
- Computer skills** : Excellent knowledge of Microsoft Office, Origin Lab, PhotoShop, ChemDraw
- Other qualifications** : Piano degree (Excellent)  
Harmony degree (Very good)