

Nationality Greek
Birth date 20-11-1981
Main residence Patras, Greece
Web <https://aphnrl.chem.upatras.gr/index.php/members/current-members?id=139&ml=1>;
https://www.researchgate.net/profile/Zacharoula_Iatridi
E-Mail ziatridi@gmail.com, iatridi@upatras.gr
Tel +306947993195

Education

- 2010-present: Postdoctoral fellow** (University of Patras, ICE/HT-FORTH Patras, Aristotle University of Thessaloniki).
- 2006-2009: PhD** in Polymer Science and Technology. Interdepartmental Studies (Departments of Physics, Chemistry, Materials Science and Chemical Engineering) University of Patras, Greece.
Thesis Title: "Study of the Release of Bivalent Copper ions from Comb-type Copolymers".
(Supervisor: Professor Georgios Bokias).
- 2004-2006: M.Sc** in Polymer Science and Technology. Interdepartmental Studies (Departments of Physics, Chemistry, Materials Science and Chemical Engineering) University of Patras, Greece.
Thesis Title: "Study of the Complexation of Bivalent Copper ions with poly(acrylic acid) and hydrophobic copolymers of acrylic acid".
(Supervisor: Professor Georgios Bokias).
- 2000-2004: B.Sc** in Materials Science, Department of Materials Science, University of Patras, Greece.
Thesis Title: "Study of the environmental degradation on the properties of composite materials". (Supervisor: Professor Constantinos Galiotis).

Professional Experience

Research Experience

- 11/02/2021-Today: Postdoctoral fellow.** Advanced Polymers & Hybrid Nanomaterials Research Laboratory, Chemistry Department, University of Patras, Greece. **Research within the frame of the Research Project: MIS: 5067612,T2EAK-00307, 81277:** SELFANOPUD, «RESEARCH – CREATE – INNOVATE, Synthesis of waterborne polyurethane dispersions with encapsulation of micro/nano structures for ecological self-healing coatings. (Scientific Director of the program in Patras: Professor Joannis K. Kallitsis).
- 01/03/2020-31/01/2021: Postdoctoral fellow.** ICE/HT-FORTH, Patras, Greece. **Research within the frame of the Research Project: HFRI-FM17-361** «Enhanced oil recovery by polymer-coated nanoparticles» (Scientific Director: Research Director Christos Tsakiroglou).
- 30/03/2017-29/03/2019: Postdoctoral fellow.** Polymer Lab, Department of Chemical Engineering, University of Patras, Greece. **Postdoctoral Research Scholarship from the State Scholarships Foundation (IKY)-MIS 5001552** (Supervisor: Professor Constantinos Tsitsilianis).
- 11/01/2016-31/07/2016: Postdoctoral fellow.** Polymer Lab, Department of Chemical Engineering, University of Patras, Greece. (Supervisor: Professor Constantinos Tsitsilianis).
- 2012-09/2015: Postdoctoral fellow.** Advanced Polymers & Hybrid Nanomaterials Research Laboratory, Chemistry Department, University of Patras, Greece.
Research within the frame of the National Research Projects:
-«**THALES 85406:** Smart magnetic nanoparticles suitable for MRI applications» (Scientific Director:

Professor Catherine Dendrinou-Samara). Collaboration with the Aristotle university of Thessaloniki.

-«**THALES D.542, MIS:379347**: Development of Novel Functional Copolymers and Surfaces with Permanent and/or Controlled released biocidal species» (Scientific Director: Professor Joannis K. Kallitsis).

- **01/03/2010-30/09/2010, 01/01/2011-31/05/2011, 01/01/2012-29/02/2012: Postdoctoral fellow.** Polymer Lab, Department of Chemical Engineering, University of Patras, Greece. (Supervisor: Professor Constantinos Tsitsilianis).
- **01/03/2012-10/10/2012: Postdoctoral fellow.** ICE/HT-FORTH, Patras, Greece. **Research within the frame of the Research Project:** «**09SYN-81-715**: Valorization of residues from biodiesel production industry towards biodegradable polymers and other high added value products, in a biorefinery concept» (Scientific Director: Professor Gerasimos Lyberatos).
- **01/07/2005–30/06/2008:** Research at the Advanced Polymers & Hybrid Nanomaterials Research Laboratory, Chemistry Department, University of Patras, Greece. **Research within the frame of the National Research Project:** **PENED «03EΔ825**: Design and Development of Paints with Controlled Release of Biocides for Submarine Applications». (Scientific Director: Professor Joannis K. Kallitsis).

Teaching Experience

- **2021 (16/03/2021 - 6/07/2021): Teaching under fixed term contract** (article 5 of Π.Δ. 407/80): Laboratory courses of “Chemistry II” (2nd semester), and “Laboratory of Material Science III” (4th semester). Department of Materials Science, University of Patras, Greece.
- **2020 (01/06/2020 - 14/07/2020): Teaching under fixed term contract** (article 5 of Π.Δ. 407/80): Laboratory course of “Chemistry II” (2nd semester). Department of Materials Science, University of Patras, Greece.
- **2005: “Laboratory in Polymer Science”** (course of the 4th year of undergraduate studies). Department of Chemistry, University of Patras, Greece.
- **2008: “Laboratory in Polymer Science”** (course of the 4th year of undergraduate studies). Department of Chemistry, University of Patras, Greece.
- **Co-supervision of B.Sc and M.Sc students diploma thesis.** Departments of Chemistry and Chemical Engineering, University of Patras, Greece.

Academic Experience

Research Interests

My research interests cover the area of water-soluble polymers. Specific areas of interest include:

- Synthesis of polymers with various synthetic methods (homogeneous polymerization in organic solvent or aqueous media, graft copolymerization, chemical functionalization of polymers, etc.)
- Synthesis of natural based copolymers (e.g. Alginate-based) with thermo- and/or pH-responsiveness
- Synthesis of copolymers with various architectures (linear, comb-type, star copolymers)
- Synthesis and study of stimuli-responsive polymers
- Self assembly of linear, star-shaped, random, comb-type or block copolymers copolymers in water or organic solvents (formation of micelles, polymersomes, polymeric capsules)
- Formation of 3D polymeric networks and rheological studies
- Design of injectable polymeric hydrogels
- Interpolymer interactions (hydrophobic, hydrogen-bonding or Coulombic) in water
- Polymer-surfactant interactions
- Polymer-metal interactions
- Hybrid organic/inorganic materials (polymer/metal, polymer/metal/surfactant, polymer/MWCNTs, polymer/magnetic nanoparticles, polymer/SiO₂ materials)
- Controlled release of biocides from polymers or polymer-metal hybrid materials
- Controlled release of drugs from polymer micelles, polymersomes, hydrogels, or polymer/SiO₂ hybrid materials

Publications in International Refereed Journals:

1. "Physicochemical study of the complexation of poly(acrylic acid) with Cu²⁺ Ions in water". Z. Iatridi, G. Bokias and J.K. Kallitsis. *J. Appl. Polym. Sci.* **2008**, *108*, 769. DOI: [10.1002/app.27757](https://doi.org/10.1002/app.27757)
2. "Stabilization in water of polymer/Cu²⁺ complexes using poly(sodium acrylate)-graft poly(N,N-dimethylacrylamide) graft copolymers". Z. Iatridi and G. Bokias. *Macromol. Chem. Phys.* **2008**, *209*, 1029. DOI: [10.1002/macp.200700635](https://doi.org/10.1002/macp.200700635)
3. "Formation of Ternary Poly(acrylic acid)-Surfactant-Cu²⁺ Complexes in Aqueous Solution: Quenching of Pyrene Fluorescence and pH-controlled "On-Off" Emitting Properties". Z. Iatridi and G. Bokias. *Langmuir* **2008**, *24*, 11506. DOI: [10.1021/la8019793](https://doi.org/10.1021/la8019793)
4. "Temperature-Sensitive Water-Soluble Hybrid Organic/Inorganic Nanoparticles Formed through Complexation of Cu²⁺ Ions with Poly(sodium acrylate)-g-poly(N-isopropylacrylamide) Comb-type Copolymers in Aqueous Solution". Z. Iatridi, G. Bokias. *Langmuir* **2009**, *25* (13), 7695. DOI: [10.1021/la900390y](https://doi.org/10.1021/la900390y)
5. "Investigation of Binary Polymer/Surfactant or Ternary Polymer/Surfactant/Cu²⁺ Complexes in Aqueous Solution through Nile Red Probing" Z. Iatridi, A. Daktiloudis, G. Bokias. *Polym. Int.* **2010**, *59* (8), 1168. DOI: [10.1002/pi.2845](https://doi.org/10.1002/pi.2845)
6. "Phase behavior and self-assembly of PS_n(P2VP-*b*-PAA)_n multiarmed multisegmented star terpolymers with ampholytic arms". Z. Iatridi, Y. Roiter, N. Stavrouli, S. Minko, C. Tsitsilianis. *Polym. Chem.* **2011**, *2*, 2037. DOI: [10.1039/C1PY00090J](https://doi.org/10.1039/C1PY00090J)
7. "pH responsive self assemblies from an An-core-(B-b-C)_n heteroarm star block terpolymer bearing oppositely charged segments". Z. Iatridi, C. Tsitsilianis. *Chem. Commun.* **2011**, *47*, 5560. DOI: [10.1039/C0CC05507G](https://doi.org/10.1039/C0CC05507G)
8. "Design of "smart" Segmented Polymers by Incorporating Random Copolymers as Building Blocks" C. Tsitsilianis, G. Gotzamanis, Z. Iatridi. *Eur. Polym. J.* **2011**, *47*, 497. DOI: [10.1016/j.eurpolymj.2010.10.005](https://doi.org/10.1016/j.eurpolymj.2010.10.005)
9. "Self-assembly and drug delivery studies of pH/thermo-sensitive polyampholytic (A-co-B)-*b*-C-*b*-(A-co-B) segmented terpolymers". Z. Iatridi, G. Mattheolabakis, K. Avgoustakis, C. Tsitsilianis. *Soft Matter* **2011**, *7*, 11160. DOI: [10.1039/C1SM06185B](https://doi.org/10.1039/C1SM06185B)
10. "Water-soluble stimuli responsive star-shaped segmented macromolecules". Z. Iatridi, C. Tsitsilianis. *Polymers* **2011**, *3*, 1911. DOI: [10.3390/polym3041911](https://doi.org/10.3390/polym3041911)
11. "Development of Cu²⁺- and/or phosphonium-based polymeric biocidal materials tential application in antifouling paints". E. K. Oikonomou, Z. Iatridi, M. Moschakou, P. Damigos, G. Bokias, J. K. Kallitsis. *Progress in Organic Coatings* **2012**, *75*, 190. DOI: [10.1016/j.porgcoat.2012.04.019](https://doi.org/10.1016/j.porgcoat.2012.04.019)
12. "pH responsive MWCNT/star terpolymer nanohybrids". Z. Iatridi, C. Tsitsilianis. *Soft Matter* **2013**, *9*, 185. DOI: [10.1039/c2sm27211c](https://doi.org/10.1039/c2sm27211c)
13. "Three different types of physical gels originate from a common triblock copolymer precursor: the case of an ionomer gel". N. Stavrouli, Z. Iatridi, T. Aubry, C. Tsitsilianis. *Polym. Chem.* **2013**, *4*, 2097. DOI: [10.1039/C2PY21024J](https://doi.org/10.1039/C2PY21024J)
14. "Application of hydrophobically modified water-soluble polymers for the dispersion of hydrophobic magnetic nanoparticles in aqueous media". Z. Iatridi, V. Georgiadou, M. Menelaou, C. Dendrinou-Samara, G. Bokias. *Dalton Trans.* **2014**, *43*, 8633. DOI: [10.1039/c4dt00393d](https://doi.org/10.1039/c4dt00393d)
15. "Doubly-grafted copolymers with hydrophilic and thermosensitive side chains: Thermosensitivity and complexation with surfactants". A. Daktiloudis, A. Chronaios, N. Mavriki, Z. Iatridi, G. Bokias. *J. Colloid Interface Sci.* **2014**, *430*, 293–301. DOI: [10.1016/j.jcis.2014.05.066](https://doi.org/10.1016/j.jcis.2014.05.066)
16. "Thermoresponsive hydrogels from alginate-based graft copolymers". M. M. S. Lencina, Z. Iatridi, M. A. Villar, C. Tsitsilianis. *Eur. Polym. J.* **2014**, *61*, 33-44. DOI: [10.1016/j.eurpolymj.2014.09.011](https://doi.org/10.1016/j.eurpolymj.2014.09.011)
17. "Thermo-resistant Soft Glassy Suspensions of Polymeric Micellar Nanoparticles in Ionic Liquid". S. Gkermpoura, M. Obiols-Rabasa, Z. Iatridi, C. Tsitsilianis. *ACS Appl. Mater. Interfaces* **2015**, *7*, 12411-12421. DOI: [10.1021/am507587s](https://doi.org/10.1021/am507587s)
18. "PNIPAM-based Heteroarm Star-Graft Quarterpolymers: Synthesis, Characterization and pH-Dependent Thermoresponsiveness in Aqueous Media". Z. Iatridi, M. M. S. Lencina, C. Tsitsilianis. *Polym. Chem.* **2015**, *6*, 3942-3955. DOI: [10.1039/C5PY00393H](https://doi.org/10.1039/C5PY00393H)
19. "Multiresponsive Star-Graft Quarterpolymer Monolayers". W. Xu, P. Ledin, Z. Iatridi, C. Tsitsilianis, V. Tsukruk. *Macromolecules* **2015**, *48*, 3344-3353. DOI: [10.1021/acs.macromol.5b00401](https://doi.org/10.1021/acs.macromol.5b00401)
20. "Magnetic colloidal superparticles of Co, Mn and Ni ferrite featured with comb-type or linear amphiphilic polyelectrolytes; NMR and MRI relaxometry". M. Menelaou, Z. Iatridi, I. Tsougos, K. Vasiou, C. Dendrinou-Samara, G. Bokias. *Dalton Trans.*, **2015**, *44*, 10980-10990. DOI: [10.1039/C5DT00372E](https://doi.org/10.1039/C5DT00372E)
21. "Multicompartmental Microcapsules with Orthogonal Programmable Two-Way Sequencing of Hydrophobic and Hydrophilic Cargo Release". W. Xu, P. A. Ledin, Z. Iatridi, C. Tsitsilianis, V. V. Tsukruk. *Angew. Chem. Int. Ed.*,

2016, 55, 4908-4913. DOI: [10.1002/anie.201600383](https://doi.org/10.1002/anie.201600383)

22. "Multifunctional polymeric platform of magnetic ferrite colloidal superparticles for luminescent, imaging and hyperthermia applications". Z. Iatridi, K. Vamvakidis, I. Tsougos, K. Vasiou, C. Dendrinou-Samara, G. Bokias. *ACS Applied Materials & Interfaces* **2016**, 8, 35059–35070. DOI: [10.1021/acsami.6b13161](https://doi.org/10.1021/acsami.6b13161)

23. "Star-Graft Quarterpolymer-Based Polymersomes as Nanocarriers for Co-Delivery of Hydrophilic/Hydrophobic Chemotherapeutic Agents". Z. Iatridi, A. Angelopoulou, E. Voulgari, K. Avgoustakis, C. Tsitsilianis. *ACS Omega* **2018**, 3, 11896-11908. DOI: [10.1021/acsomega.8b01437](https://doi.org/10.1021/acsomega.8b01437)

24. "Tunable Compartmentalized Morphologies of Multilayered Dual Responsive Star Block Polyampholytes". A. J. Erwin, V. F. Korolovych, Z. Iatridi, C. Tsitsilianis, J. F. Ankner, V. V. Tsukruk. *Macromolecules* **2018**, 51, 13, 4800-4812. DOI: [10.1021/acs.macromol.8b00744](https://doi.org/10.1021/acs.macromol.8b00744)

25. "Injectable self-assembling hydrogel from alginate grafted by P(N-isopropylacrylamide-co-N-tert-butylacrylamide) random copolymers". Z. Iatridi, S.-F. Saravanou, C. Tsitsilianis. *Carbohydrate Polymers* **2019**, 219, 344-352. DOI: [10.1016/j.carbpol.2019.05.045](https://doi.org/10.1016/j.carbpol.2019.05.045)

26. "Effect of nitrogen limitation on polyhydroxyalkanoates production efficiency, properties and microbial dynamics using a soil-derived mixed continuous culture". I. Ntaikou, I. Koumelis, M. Kamilari, Z. Iatridi, C. Tsitsilianis, G. Lyberatos. *International Journal of Biobased Plastics* **2019**, 1, 31-47.

DOI: [10.1080/24759651.2019.1648016](https://doi.org/10.1080/24759651.2019.1648016)

27. "Multicompartmental Mesoporous Silica/Polymer Nanostructured Hybrids: Design Capabilities by Integrating Linear and Star-shaped Block Copolymers". Z. Iatridi, K. Evangelatou, N. Theodorakis, A. Angelopoulou, K. Avgoustakis, C. Tsitsilianis. *Polymers* **2020**, 12(1), 51. DOI: [10.3390/polym12010051](https://doi.org/10.3390/polym12010051)

28. "Alginate-g-PNIPAM-Based Thermo/Shear-Responsive Injectable Hydrogels: Tailoring the Rheological Properties by Adjusting the LCST of the Grafting Chains". K. Safakas, S.-F. Saravanou, Z. Iatridi, C. Tsitsilianis. *Int. J. Mol. Sci.* **2021**, 22, 3824. DOI [10.3390/ijms22083824](https://doi.org/10.3390/ijms22083824)

29. "pH/Thermo-Responsive Grafted Alginate-Based SiO₂ Hybrid Nanocarrier/Hydrogel Drug Delivery Systems". N. Theodorakis, S.-F. Saravanou, N.-P. Kouli, Z. Iatridi, C. Tsitsilianis. *Polymers* **2021**, 13(8), 1228. DOI [10.3390/polym13081228](https://doi.org/10.3390/polym13081228)

Contributions at Conferences:

1. "Controlled Release of Cu²⁺ in aqueous solutions by hybrid polymer-Cu²⁺ materials". Iatridi Z., Oikonomou E., Bokias G., Kallitsis J.K. **XXII Hellenic Conference of Solid State-Physics and Material Science**, Patras, Greece, **2006**.

2. "Study of the complexation of Cu²⁺ with poly(acrylic acid) or Hydrophobic copolymers of acrylic acid". Z. Iatridi, G. Bokias. **6^o National Polymer Conference**, Patras, Greece, **2006**.

3. "Synthesis and Characterization of hybrid polymer-Cu²⁺ materials as alternatives to Tin containing materials for submarine applications". Oikonomou E., Iatridi Z., Bokias G., Kallitsis J.K. **2^o Hellenic Symposium, Green Chemistry and Sustainable Development**, Patras, Greece, **2007**.

4. "Formation of water-soluble complexes between Cu²⁺ and poly(sodium acrylate)-g-poly(N,N-dimethylacrylamide) graft copolymers". Z. Iatridi, G. Bokias, J.K. Kallitsis. **European Polymer Congress**, Slovenia **2007**.

5. "Complexation of anionic polyelectrolytes with Cu²⁺ ions and/or cationic surfactants: Design of the polymer architecture to control the behavior in aqueous solution". Z. Iatridi, E. K. Oikonomou, Ch. Daktyloudis, G. Bokias. **7^o Hellenic Polymer Conference**, Ioannina, Greece, **2008**.

6. "pH-controlled Quenching of the Fluorescence of Hydrophobic Probes solubilized in Ternary Poly(acrylic acid)-Surfactant-Cu²⁺ Complexes in Aqueous solution". Z. Iatridi, G. Bokias. **7^o Hellenic Polymer Conference**, Ioannina, Greece, **2008**.

7. "Design of block-random segmented polymers" Z. Iatridi, G. Gotzamanis, C. Tsitsilianis. **8th Hellenic Polymer Society Symposium**, Hersonissos Crete, Greece, **2010**.

8. "Self assembly and morphology of pH-sensitive heteroarm star block terpolymers in aqueous media" Z. Iatridi, C. Tsitsilianis. **8th Hellenic Polymer Society Symposium**, Hersonissos Crete, Greece, **2010**.

9. "Self assembly and morphology of pH-sensitive heteroarm star block terpolymers in aqueous media" Z. Iatridi, C. Tsitsilianis. **1st Meeting in: Biomedical and Biotechnological Applications Research Network**, Patras, Greece, **2010**.

10. "Polyhydroxyalkanoates (PHAs) production from mixed microbial cultures derived from soil: effect of nitrogen on final yields and properties" Koumelis I., Ntaikou I., Iatridi Z., Tsitsiliannis C., Lyberatos G. **9th Hellenic Polymer Society Conference**, Thessaloniki, Greece, **2012**.

11. "Physical gels formed by a triblock copolymer in an ionic liquid" S. Gerboura, Z. Iatridi, C. Tsitsilianis. **9th Hellenic Polymer Society Conference**, Thessaloniki, Greece, **2012**.

12. "Ampholytic heteroarm star block terpolymers as pH responsive dispersing agents of multi-walled carbon

nanotubes in aqueous media” Z. Iatridi, C. Tsitsilianis. **9th Hellenic Polymer Society Conference**, Thessaloniki, Greece, **2012**.

13. “Preparation of amphiphilic copolymers for the encapsulation of MFe₂O₄ nanoparticles (M= Mn, Co, Ni)” Z. Iatridi, V. Georgiadou, K. Vamvakidis, M. Menelaou, G. Bokias, C. Dendrinou-Samara. **10th International Conference on Nanosciences & Nanotechnologies (NN13)**, Thessaloniki, Greece, **2013**.

14. “Production of polyhydroxyalkanoates from mixed microbial consortia derived from soil: Effect of nitrogen limitation on microbial shift and properties of recovered polyesters”. I. Koumelis, I. Ntaikou, Z. Iatridi, M. Kamilari, C. Tsitsilianis, G. Lyberatos. **13th International Conference on Environmental Science and Technology (CEST 2013)**, Athens, Greece, **2013**.

15. “Evaluation of the NMR Relaxometric Properties of Hydrophobically Modified NiFe₂O₄ Nanoparticles”. M. Menelaou, Z. Iatridi, G. Bokias, C. Dendrinou-Samara. **Euromar 2014**, Zurich, Switzerland, **2014**.

16. “Stabilization of Co, Mn and Ni ferrites in aqueous solution by comb-type and α-telechelic amphiphilic polyelectrolytes”. Z. Iatridi, M. Menelaou, C. Dendrinou-Samara, G. Bokias, G. Staikos. **10th Hellenic Polymer Society Conference**, Patras, Greece, **2014**.

17. “Design of cationic amphiphilic copolymers with potential use as biocidal materials”. A. Stratidakis, Z. Iatridi, M. Tselepi, A. Vantarakis, G. Bokias. **10^o Πανελλήνιο Συνέδριο Χημικής Μηχανικής**, Patras, Greece, **2015**.

18. “NMR and MRI relaxometry studies of MFe₂O₄ (where M: Co, Mn, Ni) magnetic colloidal superparticles stabilized by amphiphilic polyelectrolytes”. M. Menelaou, Z. Iatridi, I. Tsougos, K. Vasiou, C. Dendrinou-Samara, G. Bokias. **12th International Conference on Nanosciences & Nanotechnologies (NN15)**, Thessaloniki, Greece, **2015**.

19. “Magnetic hyperthermia efficiency of supercolloidal nanostructures of Co and Mn ferrites by multi stimuli-responsive amphiphilic copolymers”. Z. Iatridi, K. Vamvakidis, A. Makridis, A. Angelakeris, O. Kalogirou, C. Dendrinou-Samara, G. Bokias. **12th International Conference on Nanosciences & Nanotechnologies (NN15)**, Thessaloniki, Greece, **2015**.

20. “Multisegmented Multiresponsive Multifunctional (M³) Star Polymers as Building Elements for Self-Assembling Drug Delivery Systems”. C. Tsitsilianis, W. Xu, Z. Iatridi, P. A. Ledin, A. Angelopoulou, K. Avgoustakis, V. V. Tsukruk. **11th Hellenic Polymer Society International Conference**, Heraklion Crete, Greece, **2016**.

21. “Layer by layer polymer coated mesoporous silica microparticles for drug delivery potential applications”. K. Evangelatou, Z. Iatridi, C. Tsitsilianis. **12th Hellenic Polymer Society International Conference**, Ioannina, Greece, **2018**.

22. “Thermoresponsive properties of alginate-based graft copolymers”. S. F. Saravanou, Z. Iatridi, C. Tsitsilianis. **12th Hellenic Polymer Society International Conference**, Ioannina, Greece, **2018**.

23. “Thermo-induced rheological properties of Alginate based graft copolymers”. Z. Iatridi, N. P. Kouli, C. Tsitsilianis. **12^o Πανελλήνιο Συνέδριο Χημικής Μηχανικής**, Athens, Greece, **2019**.

24. “Shear/thermo-responsive hydrogels of tunable properties for biomedical potential applications”. K. Safakas, Z. Iatridi, S.-F. Saravanou, C. Tsitsilianis. **European Polymer Congress**, Crete, Greece, **2019**.

25. “Glycidyl methacrylate-based multifunctional amphiphilic copolymers with self-association capabilities”. I. Tzoumani, Z. Iatridi, J. K. Kallitsis, G. Bokias. **35th Conference of the European Colloid and Interface Society (ECIS)**, Athens, Greece, **2021**.

26. “Synthesis of polymer-functionalized nanoparticles and development of smart fluids for enhanced oil recovery”. Ch. Ntente, Z. Iatridi, M. Theodoropoulou, G. Bokias, Ch. Tsakiroglou. **35th Conference of the European Colloid and Interface Society (ECIS)**, Athens, Greece, **2021**.

27. “Synthesis of glycidyl methacrylate-based amphiphilic copolymers and their organization properties in aqueous media”. I. Tzoumani, Z. Iatridi, A. S. Beobide, G. A. Voyiatzis, G. Bokias, J. K. Kallitsis. **13th Hellenic Polymer Society International Conference**, Athens, Greece, **2021**.

28. “Synthesis, self-organization and emulsifying / foaming capability of 2-acrylamido-2-methyl-1-propanesulfonic acid (AMPSA)-based amphiphilic copolymers”. Z. Iatridi, Ch. Ntente, M. Theodoropoulou, G. Bokias, Ch. Tsakiroglou. **13th Hellenic Polymer Society International Conference**, Athens, Greece, **2021**.

Published research work in Conference Proceedings:

1. “Design of cationic amphiphilic copolymers with potential use as biocidal materials”. A. Stratidakis, Z. Iatridi, M. Tselepi, A. Vantarakis, G. Bokias. **10^o Πανελλήνιο Συνέδριο Χημικής Μηχανικής**, Patras, Greece, **2015**.

2. “Thermo-induced rheological properties of Alginate based graft copolymers”. Z. Iatridi, N. P. Kouli, C. Tsitsilianis. **12^o Πανελλήνιο Συνέδριο Χημικής Μηχανικής**, Athens, Greece, **2019**.

Reviewer of scientific articles in International Refereed Journals:

- Journal of Colloid and Interface Science
- RSC Advances
- Journal of Materials Science-Springer
- Polymers
- Gels
- Bioengineering
- Materials
- Journal of Nanotechnology: Nanomedicine & Nanobiotechnology
- Jacobs Journal of Regenerative Medicine
- Journal of Advanced Research
- Pharmaceutics
- J Marine Sci and Engineering
- Marine Drugs
- Nanomaterials
- Molecules

Guest Editor in Journal Special Issues

- **Guest Editor in Special Issue** entitled “Hydrophilic Copolymers Special Issue: Hydrophilic Copolymers for Bioapplications or Water Remediation”. Journal: **Materials**;
Special Issue Editors: Dr. Zacharoula Iatridi; Assoc. Prof. Vlasoula Bekiari; Prof. Georgios Bokias

Specialization in techniques

Characterization of polymeric materials with techniques like:

- Proton nuclear magnetic resonance (^1H NMR)
- Elemental Analysis
- Thermogravimetric Analysis (TGA)
- Size Exclusion Chromatography (SEC)

Study of polymer solutions with techniques like:

- Viscometry
- UV-Vis spectroscopy
- Dynamic Light Scattering (DLS)
- Electrophoresis
- Scanning Electron Microscopy (SEM)
- Transmission Electron Microscopy (TEM)
- Fourier-transform infrared spectroscopy (FTIR)
- Attenuated total reflection infrared spectroscopy (ATR-IR)
- Rheology
- Conductivity
- Potentiometry
- Fluorescence Spectrophotometry
- Differential Scanning Calorimetry (DSC)

Language and Computer Skills

- **Greek**, Maternal
- **English**, Certificate of Proficiency in English, University of Michigan
- **English**, Certificate of Proficiency in English, University of Cambridge
- **Italian**, Celi 3, Università di Perugia
- **German**, B1, Goethe Institut

Computer Skills: ECDL certificate (Microsoft Word, Microsoft Windows, Microsoft Excel, PowerPoint, Internet)