CURRICULUM VITAE

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Profession

Associate Professor of Industrial Chemistry, Department of Chemistry, University of Ioannina.

Education

• **Ph.D.** in Chemistry, (Specialization: Polymer Science), Department of Chemistry, Aristotle University of Thessaloniki, Greece
• **M.Sc.** in Polymer Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece
• **Diploma** in Chemical Engineering (5-year degree), Aristotle University of Thessaloniki, Thessaloniki, Greece

Research Interests

- **Sustainable and Green Industrial Chemistry:** sustainable polymers from renewable resources, biodegradable/biocompatible polymers, biomass derived platform chemicals and monomers, processes in biorefineries, chemical processes for polymer production, process-structure-properties relationship in materials, thermophysical processes and thermophysical properties of polymers, copolymers and polymer blends.
- **Polymer Nanocomposites:** preparation of polymer matrix nanocomposites, crystallization in polymer nanocomposites.
- **Pharmaceutical Technology:** Drug delivery systems, solid state of pharmaceutics-crystallization – polymorphism – stability, formulation engineering.
- **Materials Characterization:** Thermal analysis techniques – Differential Scanning Calorimetry (DSC), Modulated Temperature DSC (MTDSC), Fast Scanning Calorimetry (FSC). Also, Thermomechanical Analysis (TMA), Dynamic Thermal Mechanic Analysis (DTMA) Thermogravimetric Analysis (TGA), Polarized Light Microscopy (PLM), X-ray Diffractometry (XRD), Tensile testing.

Professional Experience

- **Associate Professor of Industrial Chemistry and Polymer Technology**, Department of Chemistry, University of Ioannina, March 2019 - present.
- **Assistant Professor of Industrial Chemistry,** Department of Chemistry, Univeristy of Ioannina, September 2014 – March 2019.

- **Post-Doctoral research associate** May 2004 – August 2014, Department of Chemistry, Aristotle University of Thessaloniki
- **Scientific Associate, (Assistant Professor)** January 2004 - March 2011, International Hellenic University, Thessaloniki, Greece.

Participation in Research Projects

15 research projects

Editorial membership

- **Associate Editor** of the **'Journal of Renewable Materials'.**
- **Associate Editor** of section '**Green and Sustainable Chemistry in Polymer Science'** of the journal **'Polymers'.**
- **Editorial Board Member** of the journal **'Eng-Advances in Engineering'.**
- **Guest editor** of the special issue **'Polymers from Renewable Resources'** of the journal '**Polymers**'**.**
- **Guest editor** of the Topical Collection **'Sustainable polymeric materials from renewable resources'** of the journal '**Polymers**'**.**
- **Guest editor** of the special issue **'Biobased and biodegradable polymers'** of the journal '**Polymers**'**.**
- **Guest editor** of the special issue **'Catalysis for Monomers and Polymers from Renewable Resources'** of the journal **'Catalysts'.**

Professional Memberships

• Greek Society for Chemical Engineering
• Hellenic Society for Thermal Analysis and Calorimetry (Secretary of the Managing Council)
• Technical Chamber of Greece
• Hellenic Polymer Society

Teaching

Undergraduate courses at the Department of Chemistry UOI
• Unit Operations
• Chemical Processes
• Polymer Chemistry
• Polymeric and Composite Materials
• Valorization of Natural Resources and Energy
• Inorganic Industrial Chemistry
• Laboratory of Physical and Chemical Processes
• Laboratory of Chemical Technology

Graduate courses

• *Postgraduate program of the Department of Chemistry, Univeristy of Ioannina, specialization 'Advanced Materials Chemistry, Catalysis and Technological Applications'.*

Courses:

- Chemistry-Physical Chemistry-Technology of Polymers
- Technology of Materials from Petroleum and Biomass
- Laboratory of Chemical Technology

• *Postgraduate program of the Department of Chemistry Aristotle University of Thessaloniki, specialization 'Science and Technology of Polymers and Nanocomposite Materials'.*

Courses:

- Polymer Classes-Biopolymers
- Polymer Characterization Methods
- Polymer Technology
- Composite and Nanocomposite Materials

• *Interdepartmental postagraduate program "Processes & Advanced Materials Technology" of the Aristotle University of Thessaloniki.*

Courses:

- Polymeric Materials

Reviewer in journals

1. ACS Applied Materials & Interfaces
2. ACS Applied Polymer Materials
3. ACS Omega
4. ACS Sustainable Chemistry and Engineering
5. Advanced Industrial and Engineering Polymer Research
6. Advanced Materials Research
7. Advances in Materials Science and Engineering
8. Advances in Polymer Science
9. Applied Clay Sciences
10. ACS Applied Polymer Materials
11. Arabian Journal of Chemistry
12. Biomacromolecules
13. BioMed Research International
14. Biotechnology Reports
15. Chemical Engineering Journal
16. Chemical Industry & Chemical Engineering Quaterly
17. Chemical Papers
18. Chemistry Africa
19. ChemSusChem
20. Chinese Journal of Polymer Science
21. Crystals
22. Crystal Growth and Design

23. Composites A
24. Composites Communications
25. Current Analytical Chemistry
26. Energy and Fuels
27. Engineering
28. Eng-Andvances in Engineering
29. European Polymer Journal
30. Express Polymer Letters
31. Foods
32. Green Chemistry
33. High Performance Polymers
34. Industrial & Engineering Chemistry Research
35. Industrial Crops and Products
36. International Biodeterioration & Biodegradation
37. International Journal of Polymer Science
38. Journal of Applied Polymer Science
39. Journal of Biomaterials Science: Polymer Edition
40. Journal of Cleaner Production
41. Journal of Colloid and Interface Science
42. Journal of Composite Materials
43. Journal of Composites Science
44. Journal of Industrial and Engineering Chemistry
45. Journal of Materials Science
46. Journal of Polymer Engineering
47. Journal of Polymer Science: Polymer Chemistry
48. Journal of Polymer Science: Polymer Physics
49. Journal of Polymers and the Environment
50. Journal of the Chemical Society of Pakistan
51. Journal of Thermal Analysis and Calorimetry
52. Journal of Non-Crystalline Solids
53. Journal of Physics and Chemistry of Solids
54. Journal of Plastic Film and Sheeting
55. Journal of Reinforced Plastics and Composites
56. Journal of Renewable Materials
57. Lubricants
58. Macromolecular Materials and Engineering
59. Macromolecular Chemistry and Physics
60. Macromolecular Reaction Engineering
61. Macromolecules
62. Materials
63. Materials and Design
64. Materials Chemistry and Physics
65. Materials Science and Engineering B
66. Microelectronic Engineering
67. Macromolecular Chemistry and Physics
68. Nanomaterials
69. New Journal of Chemistry
70. Polymer Degradation and Stability
71. Polymer International
72. Polymer Testing

73. Philosophical Magazine
74. Physical Chemistry Chemical Physics
75. Polymer
76. Polymer-Plastics Technology and Engineering
77. Polymers
78. Polymers from renewable Resources
79. Progress in Polymer Science
80. Results in Physics
81. RSC Advances
82. Science China Chemistry
83. Soft Matter
84. Springer Science Reviews
85. Sustainability
86. Sustainable Chemistry and Engineering
87. The Journal of Physical Chemistry
88. The Korean Journal of Chemical Engineering
89. Thermochimica Acta
90. Waste Management and Research

Refereed Journal Publications

1. Evaluation of various pretreatment methods for olive oil mill wastewaters. M. Mitrakas, **G. Papageorgiou**, A. Docoslis and G. Sakellaropoulos. **European Water Pollution Control Journal**, 1996, 6, 10-16.
2. Synthesis and thermal behaviour of poly(ethylene-co-butylene naphthalene-2,6-dicarboxylate)s. G.P. Karayannidis, **G.Z. Papageorgiou**, D.N. Bikiaris and E.V. Tourasanidis. **Polymer**, 1998, 39, 4129-4134.
3. Multiple melting behaviour of poly(ethylene-co-butylene naphthalene-2,6-dicarboxylate)s. **G.Z. Papageorgiou**, GP Karayannidis. **Polymer,** 1999, 5325-5332.
4. Observations during crystallization of poly(ethylene-co-butylene naphthalene-2,6-dicarboxylate)s. **G.Z. Papageorgiou**, G.P. Karayannidis. **Polymer,** 2001, 42, 8197-8205**.**
5. Crystallization and melting behaviour of poly(butylene naphthalene-2,6-dicarboxylate). **G.Z. Papageorgiou**, G.P. Karayannidis. **Polymer,** 2001, 42, 2637-2645.
6. Synthesis and characterization of poly(ethylene terephthalate-co-isophthalate)s with low content of isophthalate units. G.P. Karayannidis, D.N Bikiaris, **G.Z. Papageorgiou** and S. Pastras **Journal of Applied Polymer Science** 2002, 86, 1931-1941.
7. Rubber toughening of glass fiber reinforced Nylon-6,6 with functionalized block copolymer SEBS-g-MA. G.P. Karayannidis, D.N. Bikiaris, **G.Z. Papageorgiou**, V Bakirtzis. **Advances Polymer Technology**, 2002, 21, 153-163.
8. Synthesis and thermal behaviour of polyesters derived from 1,3-propanediol and various aromatic dicarboxylic acids. CP Roupakias, **G.Z. Papageorgiou**, G.P. Karayannidis. **Journal of Macromolecular Science, Pure and Applied Chemistry** 2003, A40, 791-805
9. Compatibility of LDPE/EVA binary blends prepared by melt mixing. G Takidis, D Bikiaris, **G. Papageorgiou**, D. Achilias and I. Sideridou. **Journal of Applied Polymer Science** 2003, 90, 841-852.

10. WAXD and DSC study of the crystallization of poly(ethylene naphthalate), poly(butylene naphthalate) and their copolymers. **G. Papageorgiou**, G. Karayannidis, D. Bikiaris, A. Stergiou, G. Litsardakis and S. Makridis, **Journal of Polymer Science: Polymer Physics,** 2004, 42, 843-860.
11. Synthesis, crystallization and tensile properties of poly(ethylene terephthalate–co-2,6-naphthalate)s with low naphthalate units content. G. Karayannidis, N. Papachristos, D. Bikiaris, **G. Papageorgiou, Polymer**, 2003, 44, 7801-7808.
12. Melting Point Depression and Cocrystallization Behavior of Poly(ethylene-co-butylene 2,6-naphthalate) Random Copolymers. **G.Z. Papageorgiou**, D.S. Achilias, G.P. Karayannidis. **Polymer International**, 2004, 53, 1360-1367
13. Isothermal and Non-Isothermal Crystallization Kinetics of Poly(trimethylene terephthalate). Dimitris S. Achilias, **George Z. Papageorgiou** and George P. Karayannidis **Journal of Polymer Science: Polymer Physics** 2004, 42, 3775-3796.
14. Crystallization kinetics under isothermal and non-isothermal conditions and activity of filler in Polypropylene/SiO_2 nanocomposites. **G.Z. Papageorgiou**, D.S. Achilias, Dimitris N. Bikiaris, George P. Karayannidis, **Thermochimica Acta** 2005, 427, 117-128.
15. Evaluation of the isoconversional approach to estimating the Hoffman-Lauritzen parameters from the overall rates of non-isothermal crystallization of polymers, D.S. Achilias, **G.Z. Papageorgiou**, and G.P. Karayannidis, **Macromolecular Chemistry and Physics**, 2005, 206, 1511-1519.
16. Step Scan TMDSC and High Rate DSC Study of the Multiple Melting Behavior of Poly(1,3-propylene terephthalate), **G.Z. Papageorgiou**, D.S Achilias, G.P. Karayanndis, D.N. Bikiaris, C. Roupakias and G. Litsardakis, **European Polymer Journal,** 42(2) 434-445.
17. Synthesis and comparative biodegradability studies of three poly(alkylene succinate)s, D.N. Bikiaris, **G.Z. Papageorgiou**, D.S. Achilias, **Polymer Degradation and Stability,** 2006, 91, 31-43.
18. Physicochemical studies on solid dispersions of poorly-water soluble drugs. Evaluation of capabilities and limitations of thermal analysis techniques, Dimitrios Bikiaris, **G.Z. Papageorgiou**, A. Stergiou, E. Pavlidou, E. Karavas, F. Kanaze, M. Georgarakis, **Thermochimica Acta** 2005, 439, 58-67.
19. Crystallization and melting behavior of three biodegradable poly(alkylene succinates). A comparative study, **G.Z. Papageorgiou**, D.N. Bikiaris, **Polymer,** 2005, 46, 12081-12092.
20. Preparation by melt mixing and characterization of isotactic Polypopylene/SiO_2 nanocomposites containing untreated and surface treated nanoparticles, D. Bikiaris, **G. Papageorgiou**, E. Pavlidou, N. Vouroutzis, P. Palatzoglou, G. Karayannidis, **Journal of Applied Polymer Science** 2006, 100, 2684-2696.
21. Isothermal and nonisothermal crystallization kinetics of branched and partially crosslinked poly(ethylene terephthate using differential scanning calorimetry, **G.Z. Papageorgiou,** D.S. Achilias, D.N. Bikiaris and G.P. Karayannidis **Journal of Thermal Analysis and Calorimetry,** 2006, 84, 85-89.
22. Biodegradable Poly(alkylene succinate) Blends. Thermal Behavior and Miscibility study. **George Z. Papageorgiou**, Dimitrios N. Bikiaris, **Journal of Polymer Science: Polymer Physics,** 2006, 44, 584-597.
23. Dynamic mechanical and morphological studies of isotactic polypropylene/fumed silica nanocomposites with enhanced gas barrier properties. V. Vladimirov C. Betchev, A Vassiliou, **G. Papageorgiou**, D. Bikiaris, **Composites Science and Technology**, 2006, 66, 2935-2944.

24. Evaluation of the crystallization kinetics of poly(propylene terephthalate) using differential scanning calorimetry and polarized light microscopy, Achilias D.S., **Papageorgiou G.Z.**, Karayannidis G.P. **Journal of Thermal Analysis and Calorimetry**, 2006, 86(3) 791-795.
25. Effect of physical state and particle size distribution on dissolution enhancement of Nimodipine/PEG solid dispersions prepared by melt mixing and solvent evaporation. **G.Z. Papageorgiou**, D. Bikiaris, E.Karavas, S. Politis, A. Docoslis, Y. Park, A. Stergiou and E. Georgarakis, **The AAPS Journal** 2006, 8 (4) E623-631.
26. Study of thermal behavior of alipharomatic polyesters around the glass-rubber transition region by thermomechanical analysis: The mobile and rigid amorphous fraction. G. Karayannidis, E. Kirikou, C. Roupakias, **G. Papageorgiou**, **Polymer International,** 2007, 56, 158-166.
27. Non-isothermal crystallization kinetics of in situ prepared poly(ε-caprolactone)/surface-treated SiO_2 nanocomposites A. Vassiliou, **G.Z. Papageorgiou**, D.S. Achilias and D.N. Bikiaris, **Macromolecular Chemistry and Physics**, 2007, 208, 364-376.
28. Effect of molecular weight on the cold-crystallization of biodegradable poly(ethylene succinate). **G.Z. Papageorgiou**, D.N. Bikiaris and D.S. Achilias. **Thermochimica Acta**, 2007, 457, 41-54.
29. Miscibility and enzymatic degradation studies of poly(ε-caprolactone)/poly(propylene succinate) blends, Dimitrios N. Bikiaris, **G.Z. Papageorgiou,** DS. Achilias, E. Pavlidou, A. Stergiou, **European Polymer Journal**, 2007, 43, 2491-2503.
30. Crystallization kinetics of biodegradable poly(butylene succinate) under isothermal and non-isothermal conditions, **G.Z. Papageorgiou**, Dimitris S. Achilias, Dimitrios N. Bikiaris, **Macromolecular Chemistry and Physics** 2007, 208, 1250-1264.
31. Synthesis, cocrystallization and enzymatic degradation of novel Poly(butylene-co-propylene succinate) copolymers, **G.Z. Papageorgiou**, D.N. Bikiaris, **Biomacromolecules**, 2007, 8, 2437-2449.
32. Tailoring the Release Rates of Fluconazole Using Solid Dispersions in Polymer Blends, **G.Z. Papageorgiou**, D. Bikiaris, F. Kanaze, E. Karavas, A. Stergiou and E. Georgarakis, **Drug Development and Industrial Pharmacy,** 34:336–346, 2008.
33. Characterization of the distribution, polymorphism, and stability of Nimodipine in its solid dispersions in PEG by using micro-Raman spectroscopy and powder XRD A. Docoslis, K.L. Huszarik, **G.Z. Papageorgiou**, D. Bikiaris, A. Stergiou and E. Georgarakis, **The AAPS Journal** 2007, 9(3) E361-370.
34. Novel Poly(propylene terephthalate-co-succinate) random copolymers: Synthesis, solid structure and enzymatic degradation study, **G.Z. Papageorgiou**, A.A. Vassiliou, V. D. Karavelidis, A. Koumbis, D. N. Bikiaris, **Macromolecules**, 2008, 41, 1675-1684.
35. Correlation between chemical and solid-state structures and enzymatic hydrolysis in novel biodegradable polyesters. The case of Poly(propylene alkanedicarboxylate)s. D. N. Bikiaris, **G.Z. Papageorgiou**, D. Giliopoulos, C. A. Stergiou, **Macromolecular Bioscience** 2008, 8, 728–740**.**
36. Crystallization and enzymatic degradation of novel poly(ε-caprolactone-co-propylene succinate) copolymers, Sofia A. Papadimitriou, **G.Z. Papageorgiou**, D.N. Bikiaris, **European Polymer Journal** 2008, 44, 2356–2366.
37. Thermal and Dynamic Mechanical Behavior of Bionanocomposites: Fumed Silica Nanoparticles Dispersed in Poly(vinyl pyrrolidone), Chitosan and Poly(vinyl

alcohol) Konstantinos Chrissafis, Konstantinos M. Paraskevopoulos, **G.Z. Papageorgiou,** D.N. Bikiaris. **Journal of Applied Polymer Science** 2008, 110, 1739-1749.

38. Improvement in chemical and physical stability of fluvastatin through hydrogen bonding interactions with different polymer matrices. **G.Z. Papageorgiou**, S. Papadimitriou, E. Karavas, E. Georgarakis, A. Docoslis. D. Bikiaris**. Current drug delivery,** 2009, 6, 101-112.

39. The effect of physical state on the drug dissolution rate: Miscibility studies of Nimodipine with PVP. **G.Z. Papageorgiou**, D. Bikiaris, Y. Park, A. Docoslis, E. Pavlidou, M. Georgarakis. **Journal of Thermal Analysis and Calorimetry** 2009, 95(3), 903–915.

40. Novel biodegradable polyester poly(propylene succinate): Synthesis and application in the preparation of solid dispersions and nanoparticles of a water soluble drug. D.N. Bikiaris, **G.Z. Papageorgiou**, S.A. Papadimitriou, E. Karavas, K. Avgoustakis. **AAPSP Techn** 2009, 10(1), 138-146.

41. Crystallization and Melting Behaviour of the Novel Biodegradable Polyesters Poly(propylene azelate) and Poly(propylene sebacate). **G. Z. Papageorgiou**, D.N. Bikiaris, D. S. Achilias. **Macromolecular Chemistry and Physics** 2009, 210, 90–107.

42. Recycling of polymers from plastic packaging materials using the dissolution-reprecipitation technique. D.S. Achilias, A Giannoulis and **G.Z. Papageorgiou**. **Polymer Bulletin** 2009, 63, 449–465.

43. Synthesis and Properties of Novel Biodegradable/Biocompatible poly[propylene-co-(ethylene succinate)] Random Copolyesters, **G. Z. Papageorgiou**, D.N. Bikiaris. **Macromolecular Chemistry and Physics** 2009, 210, 1408–1421.

44. Characterization and crystallization kinetics of in situ prepared poly(propylene terephthalate)/SiO_2 nanocomposites D.S. Achilias, D.N. Bikiaris, E. Papastergiadis, D. Giliopoulos, **G.Z. Papageorgiou**, **Macromolecular Chemistry and Physics** 2010, 211, 66–79

45. Nanoencapsulation of Nimodipine in Novel Biocompatible Poly(Propylene-Co-Butylene Succinate) Aliphatic Copolyesters for Sustained Release, Sofia Papadimitriou, **G.Z. Papageorgiou**, Feras I. Kanaze, M. Georgarakis, D.N. Bikiaris. **Journal of Nanomaterials 2009,** art. no. 716242, doi:10.1155/2009/716242.

46. Synthesis and comparative study of biodegradable poly(alkylene sebacate)s **G. Z. Papageorgiou,** Dimitrios N. Bikiaris, D.S. Achilias, S. Nanaki, N. Karayannidis **Journal of Polymer Science: Polymer Physics** 2010, 48, 672-686.

47. Synthesis and characterization of novel poly(propylene terephthalate-co-adipate) biodegradable random copolyesters, **G.Z. Papageorgiou,** S.G. Nanaki, D.N. Bikiaris, **Polymer Degradation Stability** 2010, 95, 627-637.

48. Estimation of thermal transitions in poly(ethylene naphthalate): Experiments and modeling using isoconversional methods, **G.Z. Papageorgiou**, D.S. Achilias, G.P. Karayannidis, **Polymer**, 2010, 5, 2565-2575.

49. A different approach for the study of the crystallization kinetics in polymers. Key study: PET/SiO_2 nanocomposites, **G.Z. Papageorgiou**, K. Chrissafis, D.N. Bikiaris **Polymer International**, 2010, 59, 1630–1638.

50. Synthesis, crystallization and enzymatic degradation of the biodegradable polyester poly(ethylene azelate), **George Z. Papageorgiou**, Dimitrios N. Bikiaris, Dimitris S. Achilias, Nikitas Karagiannidis, **Macromolecular Chemistry and Physics** 2010, 24, 2585–2595

51. Crystallization and biodegradability of PLA grade for orthopaedics, T. Beslikas, J. Gigis, John Christoforides, **G.Z. Papageorgiou**, D.N. Bikiaris, **Advances in Polymer Technology**, 2010, 29, 280–299.
52. PLA nanocomposites: Effect of filler type on non-isothermal crystallization, **G.Z. Papageorgiou,** D.S. Achilias, T. Beslikas and D. Bikiaris, **Thermochimica Acta**, 2010, 511, 129–139.
53. Crystallization and Biodegradation of Poly(butylene azelate). Comparison with Poly(ethylene azelate) and Poly(propylene azelate) **G.Z. Papageorgiou,** D.N. Bikiaris, D.S. Achilias, E. Papastergiadis, A. Docoslis, **Thermochimica Acta**, 2011, 515(1-2), 13-23.
54. Isoconversional kinetics of the glass transition and determination of fragility of poly(ethylene 2,6-naphthalate) and poly(ethylene 2,6-naphthalate-co-butylene 2,6-naphthalate)s **G.Z. Papageorgiou**, D. S. Achilias, G.P. Karayannidis **Macromolecular Chemistry and Physics** 2011, 212, 730–736.
55. Crystallization and Melting of the Biodegradable Polyester Poly(propylene suberate), **G.Z. Papageorgiou**, C. Panayiotou, **Thermochimica Acta**, 2011, 523, 187–199
56. Nonisothermal melt crystallization kinetics for in-situ prepared Poly(ethylene terephthalate)/montmorillonite (PET/OMMT) nanocomposites, Antoniadis G., Paraskevopoulos K.M., Vassiliou A.A., **Papageorgiou G.Z.,** Bikiaris D., Chrissafis K. **Thermochimica Acta** 2011, 521, 161– 169.
57. Thermal decomposition of poly(propylene sebacate) and poly(propylene azelate) biodegradable polyesters: Evaluation of mechanisms using TGA, FTIR and GC/MS, K. Chrissafis, K.M. Paraskevopoulos, **G.Z. Papageorgiou**, D.N. Bikiaris, **Journal of Analytical and Applied Pyrolysis** 2011, 92, 123–130 doi:10.1016/j.jaap.2011.05.001.
58. Novel miscible poly(ethylene sebacate)/poly(4-vinyl phenol) blends: miscibility, melting behavior and crystallization study, **G. Z. Papageorgiou**, D.N. Bikiaris, C. Panayiotou, **Polymer** 2011, 52, 4553-4561
59. Crystallization Study and Comparative in Vitro–in Vivo Hydrolysis of PLA Reinforcement Ligament, T. Beslikas, I. Gigis, V. Goulios, J. Christoforides, **G.Z. Papageorgiou** and D.N. Bikiaris**, International Journal of Molecular Sciences** 2011, 12, 6597-6618.
60. Crystallization of Novel Poly(ε-caprolactone)-block-Poly(propylene adipate) copolymers, S. G. Nanaki, **G. Z. Papageorgiou**, D. N. Bikiaris, **Journal of Thermal Analysis and Calorimetry**, 2012, 108, 633-645.
61. Covalently bonded poly(ethylene succinate)/SiO_2 nanocomposites prepared by in situ polymerisation**,** Vasileiou, A.A., **Papageorgiou, G.Z.**, Kontopoulou, M., Docoslis, A., **Polymer** 54 (2013) 1018-1032.
62. Spherulite growth rates of in situ prepared poly(propylene terephthalate)/SiO2 nanocomposites, **George Z. Papageorgiou**, Dimitrios N. Bikiaris, Dimitris S. Achilias, **Journal of Thermal Analysis and Calorimetry**, 2013, 114(1), 431-440.
63. Crystallization and melting of propylene random copolymers. Homogeneous nucleation and β-nucleating agents, Dimitrios Papageorgiou, **G.Z. Papageorgiou**, D. N. Bikiaris, K. Chrissafis, **European Polymer Journal, 2013,** 49 (6), 1577-1590**.**
64. Biodegradable poly(ethylene succinate) nanocomposites. Effect of filler type on thermal behaviour and crystallization kinetics, **Papageorgiou G.Z.,** Terzopoulou Z., Achilias D.S., Bikiaris D.N.,Kapnisti M., D. Gournis, **Polymer** 2013, 54, 4604-4616.
65. Effect of the type of nano-filler on the crystallization and mechanical properties of syndiotactic polystyrene based nanocomposites, **Papageorgiou, G.Z.**, Achilias,

D.S., Nianias, N.P., Trikalitis, P., Bikiaris, D.N., **Thermochimica Acta** 2013, 565 , 82-94.

66. Miscibility and Properties of New Poly(propylene succinate)/Poly(4-vinylphenol) Blends, **Papageorgiou G.Z.,** Grigoriadou I., Andriotis E., Bikiaris D. N., Panayiotou C., **Industrial and Engineers Chemistry Research,** 2013, 52, 11948−11955.

67. Mechanical properties and crystallization of high-density polyethylene composites with mesostructured cellular silica foam, **Papageorgiou G. Z.,** Palani A., Gilliopoulos D., Triantafyllidis K.S., Bikiaris D.N.,**Journal of Thermal Analysis and Calorimetry**, 2013, 113, 1651–1665.

68. Isotactic Polypropylene/Multi-Walled Carbon Nanotube Nanocomposites: The Effect of Modification of MWCNTs on Mechanical Properties and Melt Crystallization, **Papageorgiou G.Z.,** Nerantzaki M., Grigoriadou I., Papageorgiou D.G., Chrissafis K., Bikiaris D., **Macromolecular Chemistry and Physics,** 2013, 214, 2415−2431.

69. Competitive Crystallization of a Propylene/Ethylene Random Copolymer Filled with a β-Nucleating Agent and Multi-Walled Carbon Nanotubes. Conventional and Ultrafast DSC Study, D. G. Papageorgiou, **G.Z. Papageorgiou**, E. Zhuravlev, D. Bikiaris, C. Schick, K. Chrissafis, **Journal of Physical Chemistry B** 2013, 117, 14875−14884.

70. Effect of clay structure and type of organomodifier on the thermalproperties of poly(ethylene terephthalate) based nanocomposites, **G.Z. Papageorgiou**, Eva Karandrea, D. Giliopoulos, D.G. Papageorgiou, A. Ladavos, A. Katerinopoulou, D. S. Achilias, K.S. Triantafyllidis, D.N. Bikiaris, **Thermochimica Acta** 2014, 576, 84– 96.

71. Crystallization and Melting Behavior of Poly(Butylene Succinate) Nanocomposites Containing Silica-Nanotubes and Strontium Hydroxyapatite Nanorods, **G.Z. Papageorgiou**, D.G. Papageorgiou, K. Chrissafis, D. Bikiaris, J. Will, A. Hoppe, J.A. Roether, A.R. Boccaccini, **Industrial and Engineering Chemistry Research**, 2014, 53 (2), 678–692

72. Application of density functional theory in combination with FTIR and DSC to characterise polymer drug interactions for the preparation of sustained release formulations between fluvastatin and carrageenans E. Karavas, E. Koutris, A.G. Papadopoulos, M.P. Sigalas, S. Nanaki, **G.Z. Papageorgiou,** D.Z. Achilias, D.N. Bikiaris, **International Journal of Pharmaceutics** 2014, 466, 211–222.

73. Synthesis of poly(ethylene furandicarboxylate) polyester using monomers derived from renewable resources: thermal behavior comparison with PET and PEN, **G.Z. Papageorgiou,** V. Tsanaktsis, D.N. Bikiaris, **Physical Chemistry Chemical Physics,** 2014, 16, 7946 -7958

74. Effect of nanofiller's type on the thermal properties and enzymatic degradation of poly(ε-caprolactone), M. Nerantzaki, **G.Z. Papageorgiou**, D.N. Bikiaris, **Polymer Degradation and Stability** 2014, 108, 257–268.

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