

CURRICULUM VITAE

Dr. GEORGE PAPAPOLYMEROU

Professor, University of Thessaly

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AREAS OF SPECIALIZATION FROM RESEARCH AND TEACHING EXPERIENCE

The active areas of research are in reactor design, waste management, antipollution technologies for waste effluents (physical, physicochemical and biological processing) and biochemical engineering with emphasis on biofuel production from microalgae cultivation and novel bioreactors.

A. EDUCATION

B.Sc. University of California, Berkeley 12/79, Chemical Engineering

Ph.D: University of Minnesota 12/85, Chemical Engineering

B. PROFESSIONAL EXPERIENCE

1. **From 14-1-80 to 15-12-80 in Intel Corp.**, Santa Clara, California, USA in the Laboratory of Technology Development as a Process Engineer on Photolithography on Integrated Electronic Device Processing.

2. **From 21-10-85 to 10-8-90, in 3M (Minnesota Mining and Manufacturing) Corp.**, St. Paul, MN, USA, in the Central Research Laboratories as a Senior Research Engineer in the Ferroelectric Liquid Crystal Devices Research Group. I worked on device fabrication, quality control and applications and on Ferroelectric Liquid Crystal Materials physical property characterization. I also worked, in part, with the synthesis group responsible for manufacturing these ferroelectric liquid crystal materials which are fluorinated, low molecular weight organic molecules (C9-C15) characterized by a chiral center of asymmetry which gives them their electro-optical properties.

C. TEACHING EXPERIENCE

1 Since 12-3-98 Professor in the Department of Exact Sciences and from 13-08-2013 in the Department of Infrastructure Engineering of the School of Technological Applications of TEI of Larisa.

I teach the following courses:

- a. Design and Operation of Antipollution Technologies for Air and Liquid Waste Effluents,
- b. Materials Science
- c. Solid Waste Management and Recycling
- d. Recyclable Forms of Energy

2. From 1/9/94 until today as Visiting Professor of the University of Thessaly (P.D. 407/80) in the following Departments:

A) From 1-9-94 until 31-8-2002 in the Department of Mechanical and Industrial Engineering I taught the following courses:

- a. Design and Operation of Antipollution Technologies,
- b. Environmental Engineering,
- c. Chemical and Biochemical Processes (from 1994 to 1997 named biotechnology) and,
- d. Experimental Chemistry

B) From 1-9-2002 until today in the Department of Biochemistry and Biotechnology I taught the following courses:

- a. Biochemical Engineering and Applications and,
- b. Bioreactors

D. RESEARCH EXPERIENCE

PARTICIPATION IN SELECTED ORGANIZED RESEARCH PROGRAMS

I have been involved in more than 11 scientific research programs, both in the areas of liquid waste effluent treatment-reactor design and materials science. The following are selected Research Programs:

1) From 1/5/95 until 30/9/95 I participated in the research program of the University of Thessaly titled "Development of the Technological Park of Volos" where, as the chief engineer, I conducted the Study of Environmental Impact.

2) From 1/1/2000 to 30/6/2001 in the ΠΕΝΕΑ research program (Univ. of Thessaly) with Code 1444 and title: '*Corrosion and hydrogen embrittlement of Aircraft Aluminum Alloys*'.

3) From 1/1/95 to 31/12/97 in the ΕΠΙΕΤ II/30 research program (Univ. of Thessaly) on Accelerated Corrosion Testing of Aluminum Alloys with Code 1088 and title '*Estimation of the Remaining Strength and Lifetime of Corroded Aluminum Structures*'.

4) From 1-3-2004 to 31-12-2007 in the research program "Archimedes-Environment" (TEI of Thessaly) with title: '*Advanced Oxidation methods for the Treatment of Industrial Liquid Effluents*'.

In this Research Program I was the Principal Investigator and, under my scientific supervision, from this research program a Ph.D. candidate was supported.

5) From 1-1-2006 to 31-12-2007 in the research program (TEI of Thessaly) Archimedes II and title: '*Strengthening of Ceramic Materials via the Dispersion of Industrial Solid Waste Particles*'.

6) From 1-1-2006 to 31-12-2007 in the research program (TEI of Thessaly) Archimedes II and title: '*Mechanical Properties of Materials*'

7) From 7-10-2011 until 31-08-2013 as research member in a research program funded by the private sector titled <<Research for the Development of Technologies for the Management-Valorization of Solid and Liquid by-products of Olive Mills, Municipal sludge, ASF (Alternative Solid Fuel) and Pet Coke>>

8) From 1-1-2013 until 10-10-2015 Scientific Director in the Research Program titled <<Cooperation 2011: Biofuel Production from Algae>> funded by EU and the Greek Government with the participation of two local private sector SME's.

9) From 1-1-2013 until 10-10-2015 research member in the Research Program titled <<Cooperation 2011: Innovative Ceramic Materials>> funded by EU and the Greek Government with the participation of two local private sector SME's.

Ph. D. THESIS

Dissertation title: Kinetics of small molecules on Pt-group metals

Area: Heterogeneous catalysis and Reactor Design

RESEARCH INTERESTS

1. Development and Application of Advanced Oxidation Technologies on Industrial Liquid Effluents,
2. Stabilization of Toxic Solid Wastes on Ceramic Matrices
3. Chemical Reactor and Bioreactor Design and
4. Production of Biofuels
5. Cultivation of microalgae

E. LIST OF MOST SIGNIFICANT PUBLICATIONS

E1. PUBLICATIONS IN INTERNATIONAL MAGAZINES

1. Maria N. Metsoviti, George Papapolymerou, Ioannis T. Karapanagiotidis and Nikolaos Katsoulas, "Comparison of Growth Rate and Nutrient Content of Five Microalgae Species Cultivated in Greenhouses", *Plants* 2019, 8, 279; doi:10.3390/plants8080279
2. X. Spiliotis, V. Karayannis, S. Lamprakopoulos, S. Zaoutsos, G. Papapolymerou, "Development of reliable building bricks incorporating olive-mill wastewater focusing on thermal insulation and energy savings", *J. Chem. Techn. & Metallurgy*, 54, 5, 2019, pp 1028-1034
3. M. Metsoviti, N. Katsoulas, I. Karapanagiotidis and G. Papapolymerou, "Effect of nitrogen concentration, two stage and prolonged cultivation on growth rate, lipid and protein content of *Chlorella vulgaris*", *J Chem. Technol. Biotechnol.*, (2019), DOI 10.1002/jctb.5899
4. Papapolymerou G., Karayannis V., Gougoulas N., Kantas D., Papadopoulos S., Spiliotis X., "Growing *Chlorella vulgaris* into bioreactors set in solar greenhouse, towards biofuel: Nutrient composition", *J Appl Biotechnol Bioeng*. 2018;5(2):106–110
5. N. Gougoulas, G. Papapolymerou, V. Karayannis, X. Spiliotis, N. Chouliaras, "Effects of Manure Enriched with Algae *Chlorella vulgaris* on Soil Chemical Properties", *Soil & Water Res.*, 13, 2018 (1): 51–59, doi: 10.17221/260/2016-SWR
6. X. Spiliotis, V. Karayannis, K. Ntampeglitis, S. Lamprakopoulos, G. Papapolymerou **"Development of reliable building bricks incorporating olive-mill wastewater, focusing on thermal insulation and energy savings"**, *Advances in Civil Engineering*, Accepted for Publication (2018) (Scopus Indexed)
7. V. Karayannis, S. Lamprakopoulos, A. Domopoulou, P. Kyratsis, G. Papapolymerou, X. Spiliotis **"Processing of steel mill scale for manufacturing novel engineering ceramics by powder metallurgy"**, *Academic Journal of Manufacturing Engineering*, 15 (2) (2017) 65-71 (Scopus Indexed)
8. M. N. Metsoviti, N. Katsoulas, I. T. Karapanagiotidis, G. Papapolymerou, "Effect of temperature on growth rate, lipid and protein content of the microalgal species *Nannochloropsis oculata*", *Annals of the University of Craiova*, Vol. XXII, (2017), pp 191-196
9. V. Karayannis, K. Ntampeglitis, S. Lamprakopoulos, G. Papapolymerou, X. Spiliotis **"Novel sintered ceramic materials incorporated with EAF Carbon steel slag"** *Materials Research Express*, Accepted after Moderate Revision, Revised 02/12/2016 (Scopus)
10. S. Lamprakopoulos, V. Karayannis, G. Papapolymerou, D. Kasiteropoulou, K. Ntampeglitis, X. Spiliotis, **"Development of engineering ceramics 100% from lignite fly ash and steelmaking EAFC mixtures"**, *Journal of Ceramic Processing Research*, 17 (8) (2016) (Scopus Indexed)
11. V. Karayannis, K. Ntampeglitis, S. Lamprakopoulos, D. Kasiteropoulou, G. Papapolymerou, X. Spiliotis, **"Development of extruded and sintered clay bricks with beneficial use of industrial "scrap-soil" as admixture"**, *Revista Romana de Materiale / Romanian Journal of Materials*, 46 (4) (2016) 405-413 (Scopus)

12. X.D. Spiliotis, K.I. Ntampeglitis, V.G. Karayannis, G.A. Papapolymerou, "**Physico-mechanical properties of extruded & sintered ceramics using pet coke and sewage sludge as admixtures**", *Journal of Ceramic Processing Research*, 16 (1) (2015) 11-17 (Scopus Indexed)
13. V. Karayannis, X. Spiliotis, E. Papastergiadis, K. Ntampeglitis, G. Papapolymerou, P. Samaras, "**Contribution to the sustainable management of resources by novel combination of industrial solid residues into red ceramics**", *Bulletin of Environmental Contamination and Toxicology*, 94 (3) (2015) 345-351 (Scopus Index.)
14. V. Karayannis, X. Spiliotis, A. Domopoulou, K. Ntampeglitis, G. Papapolymerou, "**Optimized synthesis of construction ceramic materials using high-Ca fly ash as admixture**", *Revista Romana de Materiale / Romanian Journal of Materials*, 45 (4) (2015) 358-363 (Scopus)
15. S. Lamprakopoulos, V. Karayannis, G. Papapolymerou, S. Zaoutsos, K. Ntampeglitis, X. Spiliotis, "**Sustainable development of P/M ceramics from steel mill scale and lignite fly ash mixtures**", *WIT Transactions on the Built Environment*, 168 (2015) 301-312
16. V. Karayannis, G. Papapolymerou, S. Zaoutsos, S. Lamprakopoulos, K. Ntampeglitis, X. Spiliotis, "**Innovative synergistic valorization of lignite fly ash and steel industry scrap-soil as secondary resources for compacted ceramics**", *Key Engineering Materials*, 660 (2015) 268-272
17. G. Papapolymerou, N. Gougoulis, X. Spiliotis, V. Karayannis, D. Kantas, S. Papadopoulos, A. Kokkalis, L. Ntoufas, "**Effect of Different Concentrations of Macronutrients on the Growth Rate and Cultivation of Algae specie *Chlorella vulgaris***", *Annals of the Univ. of Craiova, Series Biology – Envir. Eng.*, Vol. XIX (LV) 2014, pp 557-562
18. N. Gougoulis, X. Spiliotis, V. Karayannis, N. Chouliaras, G. Papapolymerou, "**The Biodegradation of Algae species *Chlorella vulgaris* and Oregano Foliar Tissues in Soil During Incubation and, their Effects on Soil Chemical Properties**", *Annals of the Univ. of Craiova, Series Biology – Envir. Eng.*, Vol. XIX (LV) 2104, pp 467-474
19. X.D. Spiliotis, K.I. Ntampeglitis, V.G. Karayannis, G.A. Papapolymerou, "**Physico-mechanical properties of extruded & sintered ceramics using pet coke and sewage sludge as admixtures**", *Journal of Ceramic Processing Research*, 15 (2014)
20. V. Karayannis, X. Spiliotis, E. Papastergiadis, K. Ntampeglitis, G. Papapolymerou, P. Samaras, "**Contribution to the sustainable management of resources by novel combination of industrial solid residues into red ceramics**", *Bulletin of Environmental Contamination & Toxicology*, 94 (3) (2015) 345-351
21. V. Karayannis, X. Spiliotis, K. Ntampeglitis, N. Koukouzas, I. Tsianakas, N. Taousanidis, G. Papapolymerou, "**Reliability analysis of clay bricks incorporating industrial solid by-products**", *Modern Applied Science*, 8 (6) (2014) 219-228
22. A.E. Domopoulou, X.D. Spiliotis, K.I. Ntampeglitis, K.H. Gudulas, G. Papapolymerou, V.G. Karayannis, "**Compacted ceramics incorporating recycled marble processing residue**", *Journal of International Scientific Publications: Materials, Methods and Technologies*, 8 (2014) 786-791
23. X. Spiliotis, K. Ntampeglitis, D. Kasiteropoulou, S. Lamprakopoulos, K. Lolos, V. Karayannis, G. Papapolymerou, "**Valorization of mill scale waste by its incorporation in fired clay bricks**", *Key Engineering Materials*, 608 (2014) 8-13

24. N. Koukouzas, C. Ketikidis, G. Itskos, X. Spiliotis, V. Karayannis, G. Papapolymerou, "**Synthesis of CFB-coal fly ash clay bricks and their characterisation**", *Waste and Biomass Valorization*, 2 (2011) 87-94
25. "Decolorization and degradation of reactive azo dyes via heterogeneous photocatalytic processes", K. Soutsas, V. Karayannis, I. Poullos, A. Riga, K. Ntampegliotis, X. Spiliotis, G. Papapolymerou, 250 (1) (2010) 345-350
26. "Effect of System Parameters and of Inorganic Salts on the Degradation Kinetics of Procion Hexl Dyes. Comparison of H₂O₂/uv, Fenton, photo-Fenton, TiO₂/UV and TiO₂/UV/ H₂O₂ processes", A. Riga, K. Soutsas, K. Ntampegliotis, V. Karayannis, G. Papapolymerou *Desalination*, 211, 72-86, 2007
27. "Decolorization kinetics of Procion H-exl dyes from textile dyeing using Fenton-like reactions", K. Ntampegliotis, A. Riga, V. Karayannis, V. Bontozoglou, G. Papapolymerou, *J. of Hazardous Materials*, 136(1), 75-84, 2006
28. "Mechanical properties of short oxide fibre - kaolin clay matrix composites S. A. Papargyri, R.G.Cooke, D.A. Papargyris, A. Botis, G. Papapolymerou, A.D. Papargyris, *British Ceramic Transactions*, 2003, Vol. 102, No5, 193-203
29. "Characterization of trapped Hydrogen in Exfoliation Corroded Aluminum Alloy 2024", E. Charitidou, G. Papapolymerou, G.N. Haidemenopoulos, N. Hasiotis and V. Bontozoglou, *Acta Metallurgica*, Vol.41, No.12, pp.1327-1332, 1999
30. "Hydrogen Absorption during Exfoliation and Alternate Immersion Corrosion of Aluminum Alloy: 2024. Corrosion Characterization and Hydrogen Evolution" G.N. Haidemenopoulos, N. Hasiotis, G. Papapolymerou and V. Bontozoglou, *Corrosion - Science and Engineering*, 54(1), 73-78, 1998
31. "Decomposition of ammonia on Pt and Ir. Comparison with Pt and Rh", George Papapolymerou, Vasilis Bontozoglou, *J. Molecular Catalysis*, Vol.120, 165-171, 1997
32. "Thermal Analysis and Mechanical Properties of Brick Clays", X. Spiliotis, G. Papapolymerou, V. Karayannis, A. Papargyris, A. Botis, D. Kasidakis, *Key Eng. Materials*, Vol 132-136, 2168, 1997
33. "Particle Size Distribution - Mechanical Property Relationship of Brick Clays", A.G. Botis, V. Karayannis, A. Papargyris, G.Papapolymerou, X. Spiliotis, D. Kasidakis, *Key Eng. Materialas*, Vols 132-136, 2164, 1997
34. "Wall-Triggered Interfacial Resonance in Laminar Gas-Liquid Flow", V. Bontozoglou, G. Papapolymerou, *International Journal for Multiphase Flow*, 24(1), 131-143, 1998
35. "Laminar Film Flow Down a Wavy Incline", V. Bontozoglou, G. Papapolymerou, *International Journal for Multiphase Flow*, 23(1), 69-79, 1997
36. "Decomposition on NO on Pd and Ir. Comparison with Pt and Rh", G.Papapolymerou, *React. Kinetics. Catalysis Lett.*, 58(1), 199, 1996
37. "Dynamic Behavior of the Reaction NO+H₂ on Pt, Rh and Ir", George A./P. Papapolymerou, A.D. Papargyris, A.G. Botis and X.D. Spiliotis, *React. Kinetics and Catalysis Lett.*, Vol. 49, 203, 1993
38. "Selectivity of the Reaction NO+H₂ on Pt, Rh and Ir", George A./P. Papapolymerou, A.D. Papargyris, A.G. Botis and X.D. Spiliotis, *React. Kinetics and Catalysis Lett.*, Vol. 49, 197, 1993

39. "Decomposition of Hydrazine on Ir", George A./P. Papapolymerou, A.D. Papargyris, A.G. Botis, D. Kasidakis, *Reaction Kinetics and Catalysis Lett.*, 49, 339, 1993
40. "Kinetics of the bimolecular reaction NO+H₂ on Pt", George A./P. Papapolymerou, A.D. Papargyris, A.G. Botis, and X.D. Spiliotis, *J. of Molecular Catalysis*, 84, 1993, 267-281
41. "The Frost resistance of Clay Ceramic Mixtures as a Function of the Firing Program", A.D. Papargyris, A.G. Botis, X.D. Spiliotis, D. Kasidakis and George A./P. Papapolymerou, *Ceramica Acta*, 6, no.4, 1994, 29-41
42. "Fluorinated Ferroelectric Liquid Crystals", E.P. Janulis, J.C. Novack, G.A. Papapolymerou, M.G. Tristani-Kendra and W.A. Huffman, *Ferroelectrics*, 85, 375-384, 1988
43. "Kinetics of Decomposition of HCHO, HCOOH, CH₃OH and N₂H₄ on Pt and Rh Surfaces", G.A. Papapolymerou and L.D. Schmidt, *Langmuir*, 3, 1098-1102, 1987
44. "Surface Reactions on Clean Platinum and Rhodium at Low and High Pressures", L.D. Schmidt, D. Hasenberg, S. Schwartz and G.A. Papapolymerou, *Catalyst Characterization Science*, Special Issue A.C.S 188, 177-184, 1985
45. "Unimolecular Reactions of NO, N₂O, NO₂ and NH₃ on Rh and Pt", G.A. Papapolymerou and L.D. Schmidt, *Langmuir*, 1, 488-495, 1985

E2. SELECTED PUBLICATIONS IN THE PROCEEDINGS OF INTERNATIONAL CONFERENCES

1. N. Gougoulas, M. N. Metsoviti, M. Grigoriou, S. Lamprakopoulos, A. Mpesios, G. Papapolymerou, " "Heterotrophic growth of *Chlorella vulgaris* on crude glycerol", 16th International Conference on Environmental Science & Technology (CEST 2019), September 4-7, Rhodes, Greece
2. AQUA2018, Montpellier France, August 25-29, 2018, Book of Abstracts, page 508
3. Metsoviti M.N., Papapolymerou G., Karapanagiotidis I.T., Katsoulas N., "Effect of different concentrations of nitrogen on the growth rate and nutrient content of the microalga *Chlorella vulgaris*", Proceedings of the 2nd International Congress on Applied Ichthyology & Aquatic Environment, 10-12 November 2016, Messolonghi – Greece
4. V. Karayannis, E. Lakioti, X. Spiliotis, A. Zabaniotou, A. Domopoulou, G. Papapolymerou, "Social acceptance of innovation in renewable resource and energy efficiency towards sustainable development", Book of Abstracts of the International Symposium and Workshop "Circular Economy and Sustainable Management of Renewable Resources in the context of Climate Change and Social Upheavals", Nisyros, Greece, July, 20-22, 2016
5. S. Lamprakopoulos, K. Ntampeglitis, X. Spiliotis, S. Zaoutsos, G. Papapolymerou, V. Karayannis, "Physico-mechanical properties of ceramic materials made from fly ash and metallurgical wastes", Proceedings of the 7th IC-SCCE – 7th International Conference from Scientific Computing to Computational Engineering, Athens, Greece, July 6-9, 2016
6. S. Lamprakopoulos, V. Karayannis, G. Papapolymerou, D. Kasiteropoulou, K. Ntampeglitis, X. Spiliotis, "Lignite fly ash and EAFC as the raw materials for ceramics", Proceedings of the CEMEPE 2015 – 5th International Conference on Environmental Management, Engineering, Planning and Economics, Mykonos island, Greece, June 14-18, 2015
7. A. Domopoulou, X. Spiliotis, A. Baklavariadis, G. Papapolymerou, V. Karayannis, "New ceramics incorporated with industrial by-products as pore formers for sorption of toxic chromium from aqueous media", Geophysical Research Abstracts, Vol. 17, EGU2015-15296, EGU General Assembly 2015, Vienna, Austria
8. A. Domopoulou, X. Spiliotis, G. Charalampides, A. Baklavariadis, G. Papapolymerou, V. Karayannis, "New composites from Al nanopowder reinforced with recycled steel-making dust", ANNIC 2015 – Applied Nanotechnology and Nanoscience Int. Conference, Paris, France, November 5-7, 2015, Accepted for Oral Presentation
9. X. Spiliotis, V. Karayannis, K. Ntampeglitis, S. Lamprakopoulos, G. Papapolymerou, "Valorization of olive-mill wastewater in ceramic manufacturing, focusing on energy savings and CO₂ emission reductions", RICCE 2015 – 19th Romanian International Conference on Chemistry and Chemical Engineering, Sibiu, Romania, September 2-5, 2015, Accepted for Oral Presentation
10. S. Lamprakopoulos, V. Karayannis, G. Papapolymerou, D. Kasiteropoulou, K. Ntampeglitis, X. Spiliotis, "Lignite fly ash and EAFC as the raw materials for ceramics", Proceedings of the CEMEPE

- 2015 – 5th International Conference on Environmental Management, Engineering, Planning and Economics, Mykonos island, Greece, June 14-18, 2015
11. G. Papapolymerou, An. Besios, A. Riga, N. Gougoulias, X. Spiliotis, V. Karayannis, "Comparative performance of a pilot-plant and a laboratory photobioreactor for the cultivation of the microalgae species *Chlorella vulgaris*", Proceedings of the CEMEPE 2015 – 5th International Conference on Environmental Management, Engineering, Planning and Economics, Mykonos island, Greece, June 14-18, 2015
 12. D. Kantas, S. Papadopoulos, G. Papapolymerou, N. Gougoulias, V. Karayannis, X. Spiliotis, "The macronutrient content of *Chlorella vulgaris* microalgae grown in laboratory and small pilot-scale bioreactors", Proceedings of the CEMEPE 2015 – 5th International Conference on Environmental Management, Engineering, Planning and Economics, Mykonos island, Greece, June 14-18, 2015
 13. A. Domopoulou, X. Spiliotis, A. Baklavaridis, G. Papapolymerou, V. Karayannis, "New ceramics incorporated with industrial by-products as pore formers for sorption of toxic chromium from aqueous media", Geophysical Research Abstracts, Vol. 17, EGU2015-15296, EGU General Assembly 2015, Vienna, Austria
 14. V. Karayannis, X. Spiliotis, P. Samaras, N. Koukouzas, A. Domopoulou, K. Ntampeglitis, G. Papapolymerou, "Recycling of lignite highly-calcareous fly ash into
 15. building bricks", GREENCHEM 4 – 4th International Symposium on Green Chemistry for Environment, Health and Development, Kos island, Greece, Sept. 24-26, 2014
 16. X. Spiliotis, K. Ntampeglitis, D. Kasiteropoulou, V. Karayannis, G. Papapolymerou, "Contribution to the management of steel industry scrap-soil by its utilization into red ceramics", GREENCHEM4 – 4th International Symposium on Green Chemistry for Environment, Health and Development, Kos island, Greece, Sept. 24-26, 2014
 17. V. Karayannis, D. Kasiteropoulou, K. Ntampeglitis, S. Lamprakopoulos, G. Papapolymerou, X. Spiliotis, "Valorization of steel mill scale for manufacturing innovative engineering ceramics and environmental protection", Book of Abstracts of the CHISA 2014 – 21st International Congress of Chemical and Process Engineering, Prague, Czech Republic, August 23-27, 2014
 18. K. Lolos, K. Ntampeglitis, D. Kasiteropoulou, V. Karayannis, G. Papapolymerou, X. Spiliotis, "Steel making EAFC as the raw material into novel ceramics", Book of Abstracts of the CHISA 2014 – 21st International Congress of Chemical and Process Engineering, Prague, Czech Republic, August 23-27, 2014
 19. K. Ntampeglitis, D. Kasiteropoulou, S. Lamprakopoulos, V. Karayannis, G. Papapolymerou, X. Spiliotis, "EAFC beneficial utilization in extruded clay bricks fabrication", Proceedings of the PRE XII – 12th International Conference on Protection & Restoration of the Environment, Skiathos, June 29 - July 3, 2014
 20. X. Spiliotis, N. Gougoulias, V. Karayannis, D. Kasiteropoulou, G. Papapolymerou, "Effect of pH on the growth rate and productivity of wild algal species", Book of Abstracts of the ICOEST 2014 – 2nd International Conference on Environmental Science and Technology, Side-Antalya, May 14-17, 2014
 21. V. Karayannis, X. Spiliotis, K. Ntampeglitis, N. Koukouzas, G. Papapolymerou, "Enhancing the thermal insulation of clay bricks using fly ash as pore-forming agent", Proceedings of the ELCAS3 – 3rd International Exergy, Life Cycle Assessment, and Sustainability Workshop & Symposium, Nisyros island, Greece, July 7-9, 2013
 22. P. Samaras, V. Karayannis, X. Spiliotis, K. Ntampeglitis, G. Papapolymerou, "Sustainable use of resources into fired clay bricks", Proceedings of the SDIMI 2013 – 6th International Conference on Sustainable Development in the Minerals Industry, Milos island, Greece, June 30 - July 3, 2013
 23. G. Papapolymerou, X. Spiliotis, V. Karayannis, N. Gougoulias, D. Kasiteropoulou, "Microalgal cultivation and biofuel production – Effect of nitrogen restriction", Book of Abstracts of the CEMEPE 2013 – 4th International Conference on Environmental Management, Engineering, Planning and Economics, Mykonos island, Greece, June 24-28, 2013
 24. V. Karayannis, P. Samaras, X. Spiliotis, V. Tsiridis, A. Domopoulou, K. Gudulas, G. Papapolymerou, "Leaching behavior of bricks produced from extruded clay/industrial solid by-product mixtures", Book of Abstracts of the CEMEPE 2013 – 4th International Conference on Environmental Management, Engineering, Planning and Economics, Mykonos island, Greece, June 24-28, 2013
 25. X.D. Spiliotis, K.I. Ntampeglitis, V.G. Karayannis, N.K. Koukouzas, G.A. Papapolymerou, "Weibull analysis and flexural strength of clay-based bricks containing powdery industrial by-products", Proceedings of the 10th HSTAM 2013 – International Congress on Mechanics, Chania, Greece, May 25-27, 2013
 26. X. Spiliotis, K. Ntampeglitis, V. Karayannis, G. Papapolymerou, "Addition of recycled municipal solid waste and pet coke into clays: Effect on the manufacturing process and final material properties", Proceedings of the IMCET 2013 – 23rd International Mining Congress and Exhibition of Turkey Antalya, Turkey, April 16-19, 2013.
 27. X.D. Spiliotis, K.I. Ntampeglitis, V.G. Karayannis, N.K. Koukouzas, G.A. Papapolymerou,

- "Weibull analysis and flexural strength of clay-based bricks containing powdery industrial by-products", Proceedings of the 10th HSTAM 2013 – International Congress on Mechanics, Chania, Greece, May, 25-27, 2013
28. V. Karayannis, P. Samaras, X. Spiliotis, V. Tsiridis, A. Domopoulou, K. Gudulas, G. Papapolymerou, "Leaching behavior of bricks produced from extruded clay/industrial solid by-product mixtures", CEMEPE 2013 – 4th International Conference on Environmental Management, Engineering, Planning and Economics, Mykonos island, Greece, June 24-28, 2013, Abstract Accepted for Presentation and Publication in the Conference Book of Abstracts
 29. G. Papapolymerou, X. Spiliotis, V. Karayannis, N. Gougoulas, D. Kasiteropoulou, "Microalgal cultivation and biofuel production – Effect of nitrogen restriction", CEMEPE 2013 – 4th International Conference on Environmental Management, Engineering, Planning and Economics, Mykonos island, Greece, June 24-28, 2013, Abstract Accepted for Presentation and Publication in the Conference Book of Abstracts.
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 31. V. Karayannis, X. Spiliotis, K. Ntampeglitis, N. Koukouzas, G. Papapolymerou, "Enhancing the thermal insulation of clay bricks using fly ash as pore-forming agent" ELCAS3 – 3rd International Exergy, Life Cycle Assessment, and Sustainability Workshop & Symposium, Nisyros Island, Greece, July, 7-9, 2013, Full Paper Accepted for Oral Presentation and Publication in the Conference Proceedings
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G. REFERENCES

1. Over 400 references (Science Citation Index) to my scientific publications
2. Over 20 references to my International Patent

H. ADMINISTRATIVE POSITIONS

From 17-01-2005 until 31-08-2006 and from 01-09-2006 until 31-08-2008 President of the Exact Science Department of the Technological & Educational Institute of Thessaly

From 15-09-2017 until 30-11-2017 Vice Rector for Academic Affairs of the Technological & Educational Institute of Thessaly