

Curriculum Vitae

Prof. Joannis K. Kallitsis

▪ Professor of Polymer Science

Department of Chemistry

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Education:

- 1984: PhD in Chemistry, Univ. of Patras, Greece
- 1979: Diploma in Chemistry, Univ. of Patras, Greece

Previous Employment/Occupation:

- 2001-present: Professor, Dept of Chemistry, University of Patras
- 1996-2001: Associate Professor, Dept of Chemistry, University of Patras
- 1990-1996: Assistant Professor, Dept of Chemistry, University of Patras
- 1/1990-9/1990: Research Fellow, Plastics Research Laboratory B.A.S.F., Ludwigshafen, Germany
- 1/1989-1/1990: Research Fellow, Max-Planck Institute for Polymer Research, Mainz, Germany
- 1986-1989: Lecturer, Dept of Chemistry, University of Patras

Visiting Professor:

- 9/1995-2/1996: Department of Chemistry, University of Groningen, The Netherlands
- 11/2006-12/2006: Department of Pharmacy, University of Trieste, Italy
- 02/2010: Department of Pharmacy, University of Trieste, Italy

Invited Professor:

- 9/1999-12/1999: Department of Chemistry, Free University of Berlin, Germany
- 1-2/2006: 'Ecole Europeene Chimie Polymeres Materiaux (E.C.P.M.), Université Louis Pasteur, Strasbourg, France
- 10/2008-11/2008: Department of Materials, Polymer Institute, Swiss Federal Institute of Technology (ETH), Zurich.
- 09/2010: Ecole Supérieure de Physique et de Chimie Industrielles (ESPCI-ParisTech), France
- 09/2012: -Ecole Supérieure de Physique et de Chimie Industrielles, TOTAL-ESPCI Chair

Research Activities:

- New proton conducting polymeric membranes for use in HTPEM fuel cells.
- Development of new optoelectronic block and graft copolymers.
- Amphiphilic block copolymers with biocidal or antifouling properties.
- Modification of carbon nanotubes with the semiconducting polymers.
- Design and synthesis of polymeric metal complexes with increased metal loading.

Current Participation in Research Projects:

- "Development of an Internal Reforming Alcohol High Temperature PEM Fuel Cell Stack", IRAFC, JTI-FCH-JU-2008-1, Budget: 280,000€ (2009-2012) (**Coordinator**).
- "Understanding the Degradation Mechanisms of Membrane-Electrode-Assembly for High Temperature PEMFCs and Optimization of the Individual Components". DEMMEA, JTI-FCH-JU-2008-1, Budget: 203,000€ (2009-2012) (**Partner**).

- “Development of the Next Generation Membrane Bioreactor System”, BIONEXGEN, FP7-NMP-2009 246039-2, Budget: 97,000€ (2010-2014) (**Partner**).
- “Development of Nanostructured Organic and Inorganic Materials and Thin Films for Molecular Electronics”, 09SYN-42-722, GSRT, Budget: 56,000€ (2010-2013) (**Partner**).
- “Development of Nanomaterials for Li Batteries”, 09SYN-42-420, GSRT, Budget: 110,000€ (2010-2013) (**Partner**).
- “Modification of Carbon Nanotubes with Semiconducting or Ionically Conducting Polymers and their Application in Energy Related Technologies” IRAKLEITOS 12-94, Budget: 45,000€ (2010-2013) (**Coordinator**).
- “Innovative Materials for Nanocrystalline Dye Sensitised Solar Cells”, GSRT Thalís, Budget: 80.000€ (2012-2015) (**Partner**).
- “Design and Development of Novel Functional Copolymers with a Block Architecture– Self-organization Abilities and Controlled Binding/Release of Biocidal Species” (MIS 377756), GSRT Thalís 12/44/5, Budget: 600.000 € (2012-2015) (**Coordinator**).
- “Design and Development of New Electron Acceptor Polymeric and Hybrid Materials and their Application in Organic Photovoltaics” GSRT “EXCELLENCE” 2780, Budget: 400.000 € (2012-2014) (**Coordinator**).
- “Development of Smart Machines, Tools and Processes for the Precision Synthesis of Nanomaterials with Tailored Properties for Organic Electronics” Smartronics – 310229 - FP7-NMP-2012.1.4-1, Budget: 380.000 € (2013-2017) (**Partner**).
- “Green/k Sustainable Lighting” 11SYN -5-573 GR-LIGHT - GSRT “SYNERGASIA”, Budget: 120.000 € (2012-2015) (**Partner**).
- “Extended Shelf-Life Biopolymers for Sustainable and Multifunctional Food Packaging Solutions” NANO BARRIER 280759-2 FP7-NMP-2011-LARGE-5, Budget: 173.000€ (2012-2015) (**Partner**).

Publications: 160 refereed journal papers

Book Chapters: 5

Conference Participation: Presentation in 60 international and 50 national conferences

Patents: International- 10; Greek- 5

Citations: More than 2900 (h factor: 28)

Current Teaching Activities:

- "Structure-Property Relations in Polymers" (Dept. of Chem., Univ. of Patras, Greece)
- "Physical Processes of Chemical Technology" (Dept. of Chem., Univ. of Patras, Greece)
- "Structure-Property Relations in Macromolecules" (Graduate Program, Univ. of Patras)
- "Characterization of Polymeric and Hybrid Materials" (Graduate Program, Univ. of Patras)

Other Activities:

- Chairman, Post Graduate Program on Polymer Science and Technologies (1998-2001).
- Vice Chairman, Department of Chemistry, University of Patras (2001-2005).
- Member of the Editorial Board of Journal Macromolecular Science, Pure & Applied Chemistry (2002-2009).
- Founding member of the spin-off activity “ADVENT TECHNOLOGIES SA”.
- Vice President of Hellenic Polymer Society (ELEP) (2006-2008).
- National Representative in IUPAC, Polymer Division IV (2005-2009).
- Vice Chairman, Research Committee University of Patras (2007-2010).
- President of Hellenic Polymer Society (ELEP) (2010-2012).
- Board Member in European Polymer Federation (2010-2012).
- Board Member of the University of Patras Governing Council (2012-today).