

Nikos Hadjichristidis

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Polymer Synthesis Laboratory*



Research Interests

The research of Prof. Hadjichristidis focuses mainly on the synthesis, properties and applications of novel homopolymers, copolymers with **well-defined complex macromolecular architectures** (star, comb, cyclic, dendritic, etc) by using anionic polymerization (AP) high vacuum techniques, as well as combinations of AP with other living and controlled/living polymerization methodologies (polyhomologation, ATRP, RAFT, NMP, ROP, ROMP, catalytic, etc). These polymers are ideal models for checking the theory, understanding and improving the performance of industrial polymers (e.g. polyethylene, polystyrene based thermoplastic elastomers) and are potential candidates for high-tech applications (e.g. nanolithography, drug delivery, membranes).

Professor Hadjichristidis has published more than 450 scientific papers in referred scientific journals (citations until December 31st 2016: 18107, h-index: 67, Web of Science; 22910, 71, Google Scholar), 21 patents, is the editor of three books and author of one book on “Block Copolymers” (Wiley 2003)

Education Profile

- Postdoctoral Fellow, National Research Council of Canada, Canada, 1972-1973
- Postdoctoral Fellow, University of Liège, Belgium, 1971-1972
- D.Sc., University of Athens, Greece, 1979
- Ph.D., University of Liège, Belgium, 1971
- B.Sc.- Chem., University of Athens, Greece, 1966

Professional Profile

- Since 2011: Professor and since 2016 Distinguished professor of Chemical Sciences, King Abdullah University of Science and Technology
- 2011: Professor Emeritus, Department of Chemistry, University of Athens, Greece
- 1988-2010: Professor, Department of Chemistry, University of Athens, Greece
- 1994-2010: Director, Laboratory of Industrial Chemistry, University of Athens, Greece
- 2005-2009: Chair, Chemistry Department, University of Athens, Greece
- 1999-2003: Chair, Chemistry Department, University of Athens, Greece
- 2000-2001: Director of the Institute of "Organic and Pharmaceutical Chemistry" of the National Hellenic Research Foundation, Greece
- 1991-1999: Chair, Chemistry Department, University of Athens, Greece
- Jan-Aug. 1991 and all summers 1984-2010: Visiting Professor, ExxonMobil Research and Eng. Co. N.J., USA
- Since 2011: Consultant, ExxonMobil Research and Eng. Co. N.J., USA
- 2000-2010: Consultant, REPSOL, Spain
- March 1986: Visiting Professor, University of Sheffield, England
- Summer 1983: Distinguished Visiting Scientist, NRC of Canada, Canada
- All summers from 1977 to 1982: Visiting Professor, University of Akron, Institute of Polymer Science, USA
- Summer 1976: Visiting Research Officer, NRC of Canada, Ottawa, Canada
- Summers 1974, 75: Visiting Professor, University of Liège, Belgium

Scientific and Professional Memberships

- Member of "Polymeric Materials Science and Engineering Division" (since 2001)
- Founder Member and President (1995-1996) of the European Polymer Federation.
- Honorary member of the Greek Chemical Engineer Society (since 1990).
- Founder and President (since 1984) of the Greek Polymer Society.
- Member of "Polymer Division" of American Chemical Society (since 1977)

Awards

- Macro Group United Kingdom Medal for Outstanding Achievement, UK, 2016
- American Chemical Society National Award for Polymer Chemistry, USA, 2015
- Fellow of American Chemical Society, Division of Polymer Chemistry, USA, 2014
- Chemistry of Thermoplastic Elastomers Award of ACS, Rubber Division, USA, 2011
- Advisory Professor, Fudan University, China, 2011
- Cooperative Award of ACS Division of Polymeric Materials: Science and Engineering, USA, 2010
- Doctor Honoris Causa, Simon Bolivar University, Caracas, Venezuela, 2010
- Doctor Honoris Causa, University of Ioannina, Greece, 2010
- International Award of the Society of Polymer Science, Japan, 2007
- Milkovich Memorial Lecturer, Institute of Polymer Science, University of Akron, USA, 2006
- Arthur K. Doolittle Award of ACS Division of Polymeric Materials: Science and Engineering, USA, 2003
- The Greek Chemists Association Award, Greece, 2000
- Empirikion Award for Sciences , Greece, 1994
- Academy of Athens Award for Chemistry, Greece, 1989

Editorial Positions

- Member of the Editorial Board of “Polymer Chemistry, RCS” (since 2013)
- Associate Editor (2002-2012) and Member of the Editorial Board (since 2012) of “European Polymer Journal”
- Member of the Editorial Board of “Progress in Polymer Science” (since 2001)
- Member of the Editorial Board of “Journal of Polymer Science, Chemistry” (since 2001)
- Member of the Editorial Board of “Macromolecules” (1997-1999)

<https://polymer.kaust.edu.sa>