



# Georgios Sakellariou

Lecturer of Industrial Chemistry

## Education

B. Sc. in Chemistry, University of Athens (1999)

Ph. D. in Chemistry, University of Athens (2003)

Post Doctoral Studies University of Tennessee at Knoxville, USA (2004-2006)

Post Doctoral Studies University of Athens, GREECE (2006-2008)

## Research Field of Interest

Synthesis and characterization of model polymers with complex macromolecular architectures.

Micellization properties of linear and non-linear copolymers in selective solvents.

Association behavior of end-functionalized polymers in solution and in bulk.

Surface initiated polymerizations.

## Teaching

### Undergraduate:

7221-Special Topics in Polymer Science

729-Physical Industrial Processes

### Graduate:

Polymer Synthesis I and II, Polymer Characterization

## Book Authorship

### Papers 2009-2010

D. Priftis, N. Petzetakis, G. Sakellariou, M. Pitsikalis, D. Baskaran, J. W. Mays, N. Hadjichristidis "Surface initiated titanium mediated coordination polymerization from catalyst functionalized single and multi walled carbon nanotubes" *Macromolecules* **42** 3340 (2009)

N. Hadjichristidis, H. Iatrou, M. Pitsikalis, G. Sakellariou "Synthesis of Well-Defined Polypeptide-Based Materials via the Ring-Opening Polymerization of alpha-Amino Acid N-Carboxyanhydrides" *Chem. Rev.* **109** 5528 (2009)

G. Sakellariou, A. Avgeropoulos, N. Hadjichristidis, J. W. Mays, D. Baskaran "Functionalized organic nanoparticles from core-crosslinked Poly(4-vinylbenzocyclobutene-*b*-butadiene) diblock copolymer micelles" *Polymer* **50** 6202 (2009)

D. Priftis, G. Sakellariou, D. Baskaran, J. W. Mays, N. Hadjichristidis

"Polymer grafted janus multi-walled carbon nanotubes" **Soft Matter** 5 4272 (2009)

D. Priftis, G. Sakellariou, N. Hadjichristidis, E. K. Penott, A. T. Lorenzo, A. J. Muller "Surface modification of multi-walled carbon nanotubes with biocompatible polymers via ring opening and living anionic surface initiated polymerization. Kinetics and crystallization behaviour" **J Polym Sci Polym Chem Ed** 47 4379 (2009)

A. Elmaci, J. Hacaloglu, C. Kayran, G. Sakellariou, N. Hadjichristidis "Thermal decomposition of polystyrene-b-poly(2-vinylpyridine) coordinated to co nanoparticles" **Polymer Degradation and Stability** 94 2023 (2009)

D. Priftis, G. Sakellariou, J. W. Mays, N. Hadjichristidis "Novel diblock copolymer grafted multi-walled carbon nanotubes via a combination of living and controlled/living surface polymerizations" **J Polym Sci Polym Chem Ed** 48 1104 (2010)

M. Takenaka, S. Aburaya, S. Akasaka, H. Hasegawa, N. Hadjichristidis, G. Sakellariou, Y. Tada, H. Yoshida "Formation of long-range stripe patterns with sub 10 nm half-pitch from directed self-assembly of block copolymer" **J Polym Sci Polym Phys Ed** 48 2297 (2010)

#### **Contact**

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