



Marinos Pitsikalis

Associate Professor of Industrial Chemistry

Education

B. Sc. in Chemistry, University of Athens (1989)

Ph. D. in Chemistry, University of Athens (1994)

Post Doctoral Studies University of Alabama at Birmingham, USA (1994-1996)

Research Field of Interest

Synthesis and characterization of model polymers with complex macromolecular architectures.

Synthesis and characterization of well-defined polymers by coordination polymerization techniques.

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

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

Teaching

Undergraduate:

528-Industrial Chemistry

628-Polymer Science

7221-Special Topics in Polymer Science

Graduate:

Polymer Synthesis I and II, Polymer Characterization, Spectroscopy of Polymers, Catalytic Reactions for the Synthesis and Modification of Polymers

Book Authorship

Papers 2008-2009

Touris, K. Kostakis, S. Mourmouris, V. Kotzabasakis, M. Pitsikalis, N. Hadjichristidis "Complex macromolecular architectures based on n-hexyl isocyanate and ϵ -caprolactone using titanium-mediated coordination polymerization" *Macromolecules* **41** 2426 (2008)

G. Floros, N. Saragas, P. Paraskevopoulou, I. Choinopoulos, S. Koinis, N. Psaroudakis, M. Pitsikalis, K. Mertis "Catalytic polymerization of alkynes with quadruply bonded octachloroditungsten $[W_2Cl_8]^{4-}$ anion" *J. Molecular Catal. A* **289** 76 (2008)

N. Kotsis, M. Pitsikalis, E. Siakali-Kioulafa "Micellization behavior of diblock and triblock copolymers of poly(t-butyl methacrylate) bearing associating

short polystyrene end-blocks" *Eur. Polym. J.* **44** 2687 (2008)

LaRue, M. Adam, E. B. Zhulina, M. Rubinstein, M. Pitsikalis, N. Hadjichristidis, D. A. Ivanov, R. I. Gearba, D. V. Anokhin, S. S. Sheiko "Effect of soluble block size on spherical diblock copolymer micelles" *Macromolecules* **41** 6555 (2008)

S. Y. Yu-Su, D. R. Thomas, J. A. Alford, I. LaRue, M. Pitsikalis, N. Hadjichristidis, J. De Simone, A. V. Dobrynin, S. S. Sheiko "Molding block copolymer micelles: A framework for molding of discrete objects on surfaces" *Langmuir* **24** 12671 (2008)

V. Kotzabaskis, N. Petzetakis, M. Pitsikalis, N. Hadjichristidis, D. J. Lohse "Copolymerization of tetradecene-1 and octane-1 with silyl-protected 10-Undecen-1-ol using a C-s-symmetry hafnium metallocene catalyst. A route to functionalized poly (α -olefins)" *J. Poly. Sci. Part A: Poly. Chem.* **47** 876 (2009)

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)

Karatzas, P. Bilalis, H. Iatrou, M. Pitsikalis, N. Hadjichristidis "Synthesis of well-defined functional macromolecular chimeras based on poly(ethylene oxide) or poly(N-vinyl pyrrolidone)" *Reactive and Functional Polymers* **69** 435 (2009)

V. Kotzabaskis, K. Kostakis, M. Pitsikalis, N. Hadjichristidis, D. J. Lohse, T. Mavromoustakos, C. Potamitis "Polymerization of higher α -olefins using a C-s-symmetry hafnium metallocene catalyst. Kinetics of the polymerization and microstructural analysis" *J. Poly. Sci. Part A: Poly. Chem.* **47** 4314 (2009)

G. C. Vougioukalakis, I. Stamatopoulos, N. Petzetakis, C. P. Raptopoulou, V. Psycharis, A. Terzis, P. Kyritsis, M. Pitsikalis, N. Hadjichristidis "Controlled Vinyl-Type Polymerization of Norbornene with a Nickel(II) Diphosphinoamine/Methylaluminoxane Catalytic System" *J. Poly. Sci. Part A: Poly. Chem.* **47** 5241 (2009)

T. Lorenzo, A. J. Muller, M. C. Lin, H. L. Chen, U. S. Jeng, D. Priftis, M. Pitsikalis, N. Hadjichristidis "Influence Of Macromolecular Architecture on the Crystallization of (PCL₂)-*b*-(PS₂) 4-Miktoarm Star Block Copolymers in Comparison to Linear PCL-*b*-PS Diblock Copolymer Analogues" *Macromolecules* **42** 8353 (2009)

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

N. Saragas, G. Floros, P. Paraskevopoulou, N. Psaroudakis, S. Koinis, M. Pitsikalis, K. Mertis "Polymerization of terminal alkynes with a triply bonded tungsten halo-complex" *J. Molecular Catal. A*, **303** 124 (2009)

Contact

Dr. Marinos Pitsikalis
Associate Professor
Laboratory of Industrial Chemistry
Department of Chemistry
National and Kapodistrian University of Athens
Zografou 157 71, Greece
Office: 1st floor, Office 5
Tel: +30-210-7274768 and +30-210-7274440
Fax: +30-210-7221800
Email: pitsikalis@chem.uoa.gr