

Katia Sparnacci

Curriculum vitae

PERSONAL DATA

Name Katia Sparnacci
Date of birth 02 August 1973
Place of birth Rimini
Citizenship Italian

BIO AND EDUCATION

1998 Degree in Industrial Chemistry at the University of Bologna .

2004 Ph.D. in Chemistry Università del Piemonte Orientale in Alessandria (Italy) (Thesis: "Novel Delivery Systems for Vaccine Therapy");

UNIVERSITY CAREER

2016-	Adjunct Professor in Industrial Chemistry, Università del Piemonte Orientale
2010-2016	Researcher in Industrial Chemistry, Università del Piemonte Orientale
2009-2010	Researcher for the Telethon project: "Pre-clinical evaluation of biocompatible nanoparticles as delivery system of 2-methyl-phosphorothioate (2OMePS) antisense oligoribonucleotides for exon skipping-mediated dystrophin restoration" (GGP09093).
2003-2009	Post Doc research position at the Department of Life and Environmental Sciences, Università del Piemonte Orientale

SCIENTIFIC POSITIONS

2016-	Management board member for the Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (INSTM).
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MAIN FIELDS OF INTEREST

1. Polymer Chemistry;
2. Thermal and rheological characterization of polymeric materials;
3. Synthesis and study of polymeric and inorganic colloids;
4. Controlled radical polymerization;
5. Block copolymers.

CURRENT ISSUES OF RESEARCH

1. Synthesis of functional polymeric nanoparticles as drug delivery systems
2. Synthesis, characterization and self-assembly of core-shell nano- and microparticles for photonic applications
3. Polymer brushes through the "grafting to" and "grafting from" approaches;
4. Self-assembly of block copolymers thin film for microelectronic applications.

CURRENT FUNDED PROJECTS

PROGRAMME	FUNDED PROJECT
EMPIR Project Innanopart (2015-2018)	METROLOGY FOR INNOVATIVE NANOPARTICLES
EMPIR Project 3DMetChemIT (2015-2018)	ADVANCED 3D CHEMICAL METROLOGY FOR INNOVATIVE TECHNOLOGIES

TOP FIVE PAPERS

1. A. Bozzola, V. Robbiano, K. Sparnacci, G. Aprile, L. Boarino, A. Proto, R. Fusco, M. Laus, L.C. Andreani, D. Comoretto, "A Multi-optical Collector of Sunlight Employing Luminescent Materials and Photonic Nanostructures" *Advanced Optical Materials*, **4**, (2016), 147-155.
2. K. Sparnacci, D. Antonioli, V. Gianotti, M. Laus, F. Ferrarese Lupi, T.J. Giammaria, G. Seguni, M. Perego, "Ultrathin random copolymer-grafted layers for block copolymer self-assembly" *ACS Applied Materials and Interfaces*, **7**, (2015), 10944-10951.
3. F. Vita, K. Sparnacci, G. Panzarasa, I.F. Placentino, S. Marino, N. Scaramuzza, G. Portale, E. Di Cola, C. Ferrero, S.I. Torgova, G. Galli, M. Laus, O. Francescangeli, "Evidence of cybotactic order in the nematic phase of a main-chain liquid crystal polymer with bent-core repeat unit" *ACS Macro Letters*, **3** (1), (2014) 91-95. Dati bibliografici
4. A. Ferlini, P. Sabatelli, M. Fabris, E. Bassi, S. Falzarano, G. Vattei, D. Perrone, F. Gualandi, N. Maraldi, L. Merlini, K. Sparnacci, M. Laus, A. Caputo P. Bonaldo, P. Braghetta, P. Rimessi "Dystrophin restoration in skeletal, heart and skin arrector pili smooth muscle of mdx mice by ZM2 NP-AON complexes" *Gene Therapy* **17**, (2010), 432-438.
5. V. Kapeliouchko, G. Palamone, T. Poggio, G. Zuccheri, R. Passeri K. Sparnacci, D. Antonioli, S. Deregibus, M. Laus, "PMMA-Based Core-Shell Nanoparticles with Various PTFE Cores", *J Polym Sci Part A Polym Chem*, **47**, (2009), 2928-2937.