

Mario Luzón

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EDUCATION & QUALIFICATIONS

Sep 2007 – Jun 2008: MSc Polymer Science and Technology with honours
Consejo Superior de Investigaciones Científicas (CSIC)

Sep 2006 – Jun 2007: Postgraduate Courses on green Chemistry with honours
Universidad Complutense de Madrid (UCM)
Universidad de Castilla la Mancha (UCLM)

Sep 2000 – Jun 2005: BSc Chemistry
Universidad Autónoma de Madrid (UAM)

EMPLOYMENT HISTORY

Jan 2009 – Jul 2009: Visiting Researcher.
Centre for Advanced Macromolecular Design (CAMD)

Centre for Advanced Macromolecular Design, CAMD. School of Chemical Sciences and Engineering, SChE. The University of New South Wales, UNSW Sydney NSW 2052 AUSTRALIA. “*Synthesis and characterization of Water soluble Thermoresponsive Hyperbranched Copolymers based in Ethylene Glycol Methacrylate.*” Supervisor: Prof. Thomas P. Davis

Jul 2007 - Present:

**Predoctoral Fellowship
Consejo Superior de Investigaciones Científicas
(CSIC)**

Spanish Ministry of Education and Science FPI Fellowship. Department of Photochemistry Polymer Institute of Polymer Science and Technology (CSIC). Madrid. *“Synthesis, study and application of new polymer materials with structure controlled sensors and fluorescent. Study of environmental degradation.”*

Mar 2005 – Jul 2007:

**Research Assistant
Universidad Autónoma de Madrid (UAM)**

Research in the department of organic chemistry at the Universidad Autónoma de Madrid in Synthesis of Dendrimers on the project *“Synthesis of new supports for the immobilization-stabilization of thermophiles enzymes. Applicability in sustainable biochemical industries”*. Manuscript in preparation.

Jun 2004 – Feb 2006:

**Technician
Indoor Air Quality Company**

Control of water quality in public establishments through the method of hyperchloration.

PUBLICATIONS AND PROCEEDINGS

1.- Luzón, M.; Boyer, C.; Whittaker, M.; Tao, L; Davis, T.P.; Corrales, T.; Peinado, C.; *“Water soluble Thermoresponsive Hyperbranched Copolymers based in Ethylene Glycol Methacrylate. Synthesis, characterization and Aqueous Aggregation behavior.”* Manuscript in preparation.

2.- Boyer, C.; Whittaker, M.; Luzon, M.; Davis, T.P.; “*Design and Synthesis of dual Thermoresponsive and Antifouling Hybrid Polymer/Gold Nanoparticles.*” *Macromolecules* **2009**. Accepted.

3.- Luzón, M.; San Miguel, V.; Corrales, T.; Peinado, C.; “*Hierarquically organized micellization of triblock copolymers based on poly(ethylene glycol) methyl ether methacrylate and ϵ -caprolactone.*” Manuscript in preparation.

4.- Luzón, M.; Rumero, A.; “*Synthesis of carbon dendron nano-chains with π -extended conjugation based on linear 1,4-phenylethynyl.*” Manuscript in preparation.

RESEARCH PRESENTED

1.- Luzón, M.; Corrales, T.; San Miguel, V.; Ballesteros, C.; Peinado, C.; “*Self-Assembly of temperature-sensitive triblock copolymers based on poly[oligo (ethylene glycol) methacrylate] and poly(ϵ -caprolactone).*” *Frontiers in Polymer Science*, Mainz, Germany 2009 International Symposium Celebrating the 50th Anniversary of the Journal Polymer. **(Poster)**

2.- Luzon, M.; Tao, L.; Boyer, C.; Whittaker, M.; Davis, T.P.; Corrales, T.; Peinado, C.; “*Synthesis of thermoresponsive crosslinked polymers via Reversible Addition Fragmentation Chain Transfer Polymerization (RAFT).*” XI Reunión del Grupo Especializado de Polímeros, Valladolid 2009. **(Oral Communication)**

TECHNIQUES.

Materials characterization techniques (Rheology, DSC, TGA, DMTA and nanoindentation)

Analytical (HPLC, SEC, MALDI, NMR, FTIR, ATR, UV and fluorescence), Biochemical

Polymer chemistry and Photochemistry

Microscopy (Light, Fluorescence, SEM)

LANGUAGES

English: High level

Spanish: Mother tongue