

## **DR. GABRIELLA CAVALLO**

Politecnico di Milano

Dipartimento di Chimica, Materiali ed Ingegneria Chimica "Giulio Natta"

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Date and Place of birth: 02/02/1976, Vallo della Lucania (SA)

Nationality: Italian

### **Professional Career**

Present Position

2011-....: Assistant Professor, Department of Chemistry, Materials, and Chemical Engineering "G. Natta", Politecnico di Milano

Previous Positions

**2010 – 2011** - Team Leader, "Center of Nano Science and Technology of IIT@POLIMI", IIT-Istituto Italiano di Tecnologia

Research Project: "Design, synthesis and structural/optical characterization of new organic chromophores for applications in dye-sensitized solar cells (DSSC)"

**2011** Visiting Researcher at VTT- Technical Research Centre of Finland.

Research Project: "Study of surface-active properties of fluorinated proteins"

**2008- 2010**- Postdoctoral Fellowship, Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta", Politecnico di Milano

Research Project: "Synthesis and characterization of self-assembled nanostructured materials having relevant functional properties"

**2008-2008**- Postdoctoral Fellowship, Pirelli Labs , Milano

Research Project: "Synthesis and characterization of innovative materials for fuel cells applications".

**2006-2007**- Postdoctoral Fellowship, Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta", Politecnico di Milano

Research Project: "Synthesis, characterization and performance of polymeric materials for hydrogen fuel cells".

**2005-2006**- Postdoctoral Fellowship, Dipartimento di Chimica Università degli Studi di Salerno

Research Project: "Synthesis and characterization of catalysts for innovative polymerization processes"

**2000-2002**- Fellowship, Pirelli Tyres S.p.A. , Milano:

Research Projects: "New components for tyre's compounds produced with innovative technology" (2002)

"Synthesis of polymers as components of tyre's compounds" (2000-2002)

### **Education:**

Ph.D. in Chemistry (3 years), University of Salerno, 2006

Degree in Chemistry (5 years), University of Salerno, 2000

### **Research Interests:**

Self-assembly of functional materials

Synthesis of materials for photovoltaic applications

Supramolecular photoresponsive polymers

NLO-active materials via self-assembly.  
Supramolecular liquid crystals

**Publications:**

Author of 30 papers in major international peer-reviewed multi-disciplinary scientific journals.  
More than 20 communications to scientific meetings.

**Prizes and Awards**

Dalton Transactions Poster Prize at the 5th International Conference on Molecular Materials  
MolMat2012, Barcelona July 3-6, 2012

Placed second in the “Idea to Product Competition” Italy-Politecnico di Milano with the project “  
FoXcs-Fluorurati Organici per Celle Solari”