



# Davide Comoretto

Full professor

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## *Education and training*

1993

### **PhD in Chemical Sciences**

Optical properties and electronic states in conjugated polymers  
Consortium of Universities Torino-Genova-Pavia - Torino - IT

1988

### **Master in Physics**

Study of the optical properties of oriented polymer semiconductors -  
107/110  
University of Milano - Milano - IT

## *Academic experience*

2011

### **Professore Associato**

Università di Genova

1993 - 2011

### **Researcher**

Università di Genova - Genoa - IT

## *Language skills*

### **English**

Independent

### **French**

Independent

## *Teaching activity*

Academic Year 2017-2018

Industrial Chemistry 1 (SCIENZE MAT.FIS.NAT.)

Macromolecular Chemistry (first module) (SCIENZE MAT.FIS.NAT.)

Polymers for Electronics (SCIENZE MAT.FIS.NAT.)

Academic Year 2018-2019 (forseen)

Industrial Chemistry 1 (SCIENZE MAT.FIS.NAT.)

Control Techniques for Industrial Process (SCIENZE MAT.FIS.NAT.)

Polymers for Electronics and Lught Harvesting (SERP+, SCIENZE  
MAT.FIS.NAT.)

## ***Postgraduate research and teaching activity***

### **Supervision of PhD students, residents and post-doctoral fellows**

Organic Materials for Photonics (PhD School in Science and Technology of the Chemistry and of Materials)

### ***Research interests***

The research field concerns the spectroscopic properties of conjugated polymers. Main investigated items are the study of the optical anisotropy of highly oriented polymers and the photophysics of polyconjugated materials. Davide Comoretto addressed the relations between the nature of the photoexcitations (charged states, triplet excitons) and the polymer supramolecular structure.

Currently, He is working on organic & hybrid photonic crystals like artificial opals and polymer DBR and planar microcavities. His goal is to dope such photonic crystals with photo-active materials (like molecular semiconductors, metal/semiconducting nanoparticles, plasmonic nanostructures, conjugated and photochromic polymers) or to engineer structural defects in order to modulate by photoexcitation the photonic crystal optical response. He is also working on polymer nanocomposites having controlled refractive index.

He is co-author of more than 140 papers published on refereed international Journals with more than 1600 citations (H-index 22) and of international patent requests. He collaborates as a referee with several international scientific journals among which those of the American Chemical Society and the American Physical Society.

He has been scientific coordinator of Genoa research unit for PRIN 2004 and 2006, CARIPLO (2010-2012) and CARIGE (2013-2014), H2020-MSCA-ETN-SYNCHRONICS (2015-2018) projects. He collaborates with different companies to the industrial application of conjugated polymers and photonic crystals in the fields of photovoltaics, sensing and photonics.

### ***Editorial activity***

Davide Comoretto collaborates as a referee with several international scientific journals among which those of the American Chemical Society, the American Physical Society, Wiley and other primary publishing groups.