

Curriculum Vitae of Professor Carlo Taliani



Born: March 11th 1945, in Siena, Italy.

Position (until nov. 2010): Research Director at ISMN-Bo, CNR, Bologna, Italy

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Research interests

The principal interest of Prof. Taliani is **nanostructured materials** and **nanotechnologies** for application in information technologies and renewable energy sources and in innovative coatings.

A short list of research interests is the following:

- Electronic and optoelectronic properties of **organic semiconductors** for the development of devices including organic light emitting diodes (OLED), organic solar cells, organic transistors and plastic electronics;
- **Thin film fabrication** by means of pulsed plasma deposition (PPD): an innovative method for TCO deposition at room temperature, II-VI semiconductors for thin film photovoltaics, CMR, complex oxides coatings, high k materials, decorative coatings etc.;
- **Nanoscience and nanotechnology** of nanostructured organic and inorganic materials;
- **Hybrid organic-inorganic nanostructures**;
- **Organic Spintronics**: materials and processes for the application of organic semiconductors to spintronics. The field has been initiated by Taliani in 2001 and the principal patent on this field is held by him.

Research activities

- Has published more than **240 scientific papers** on international refereed journals.

- Has received more than **7200 citations** (ISI Science Citation Database) with **h index 36**.

- Is author of more than **13 patents**.

- Has been ranked among the first ten scientists in the field of organic thin film transistor by: Essential Scientific Indicators (ESI) – Thomson:

<http://esi-topics.com/otft/interviews/CarloTaliani.html>

Among the top italian scientists:

http://www.topitalianscientists.org/Top_italian_scientists_VIA-Academy.aspx

- Has given more than **140 invited talks** and conferences on approximately **260 presentations** at conferences.

- Has edited several books.

- Has been member of several committees (advisory boards) of international conferences and has organized more than **20 congresses, workshops and international schools**.

- Member of several associations: American Physical Society, New York Academy of Sciences, European Material Research Society, Società Chimica Italiana, Material Research Society e Fellow of the Third World Academy of Science.
- Founder and major shareholder of Organic Spintronics srl and Siena Solar Nanotech SpA.

Bologna, January 2011