

## Massimo Guglielmi – Curriculum

Born in [REDACTED]

Degree in Chemical Engineering at the University of Padova in 1979.

Researcher in 1983. Associate Professor of Applied Chemistry in 1987. Full Professor of Materials Science and Technology in 2000.

His teaching activity has always been in the fields of Materials Science and Engineering and of Ceramics.

Coordinator of the Degree in Materials Engineering, Faculty of Engineering, from 2001 to February 2008.

Member of the Steering Committee of the Doctorate School in Materials Science and Engineering.

Member of the Academic Senate of the University of Padova.

Author or co-author of more than 290 publications, most of them in international Journals, with H Index 36.

Main topics of research have been, in the past:

1. Surface phenomena in glasses due to chemically or physically induced modifications.
2. Synthesis of glasses and ceramics by chemical routes through sol-gel method, their characterization and application.
3. Deposition of thin inorganic coatings by the sol-gel method, their characterization and application.

The research activity of the last years was aimed to exploit the possibility to apply the sol-gel techniques to the synthesis of nanocomposite and nanostructured materials. In particular, two main topics have been developed: a) the synthesis of nanoparticles and their embedding in porous matrices for sensing applications; b) the synthesis of hybrid organic-inorganic materials as host matrices for functional molecules and as functional resists for nanopatterning applications.

Scientific titles:

Awarded in 1992 with the "Professor Vittorio Gottardi Memorial Prize" by the International Commission on Glass in recognition of his outstanding individual accomplishments in the field of glass, he gave a keynote lecture at the Opening Session of the XVI International Glass Congress. Co-organizer of the First International Workshop on Glass and Glass-ceramics from Gels in 1981. This Workshop was the first of a series of meetings which, every two years, are organised all over the World. In 2001 he organized in Padova the 11th meeting entitled "International Workshop on Glasses, Ceramics, Hybrids and Nanocomposites from Gels, which had more than 450 participants from 40 countries. He is member of the International Advisory Committee of the Workshop since 1987 and is member of the Commission for the selection of the host country.

Member of the International Editorial Board of the "Journal of Sol-Gel Science and Technology". Referee for several international scientific journals (Chemical Communications, Chemical Physics Letters, Electroceramics, Faraday Transactions, Journal of Materials Chemistry, Journal of Materials Research, Journal of Non-Crystalline Solids, Journal of Physical Chemistry, Journal of Porous Materials, Journal of Raman Spectroscopy, Journal of Sol-Gel Science and Technology, Journal of the European Ceramic Society, Molecular Simulation, New Journal of Chemistry, Optical Materials, Physical Chemistry Chemical Physics, Thin Solid Films)

Chairman of the Working Group “Coatings”, national representative and member of the Steering Committee of the European Concerted Action "Sol-Gel" in 1995-97.

Coordinator of local research unit in the national and international projects:

Member of the Steering Committee of the Associazione Italiana Ingegneria dei Materiali (AIMAT, Italian Association for Materials Engineering) from 1996 to 2001.

Member of the Scientific and Technical Committee of CUGAS (Centro Universitario Grandi Apparecchiature Scientifiche) up to 2013.

Member of the referee panels of the Ministry of Economic Development and the Regione Veneto.

Member of the Scientific and Technical Committee of CIVEN - Venice, participated to the development of the Nanotechnology Laboratory.

Chairman of the Technical Committee 12 “Pharma Packaging” of the International Commission on Glass.

Member of the Administration Council of Parco Scientifico e Tecnologico Galileo since 2014.

## **CURRICULUM di Massimo Guglielmi**

### **Carriera**

- 2000 Professore Ordinario di Scienza e Tecnologia dei Materiali
- 1987 Professore Associato
- 1983 Ricercatore

### **Incarichi istituzionali (negli ultimi 10 anni)**

- Attualmente Direttore del Dipartimento di Ingegneria Industriale
- Membro del Senato Accademico.
- Rappresentante della Facoltà di Ingegneria nella Commissione Erasmus di Ateneo.
- Membro del Consiglio Direttivo della Scuola di Dottorato in Scienza e Ingegneria dei Materiali e delle Nanostrutture
- Presidente del Corso di Laurea in Ingegneria dei Materiali.

### **Altri incarichi (negli ultimi 10 anni)**

- Coordinatore del Comitato Tecnico TC 12 “Pharma Packaging” dell’International Commission on Glass (ICG).
- Membro dell’International Board dell’International Sol-Gel Society (ISGS).
- Membro dell’Editorial Board del Journal of Sol-Gel Science and Technology.
- Membro dell’Assemblea dei Soci e membro del Consiglio Scientifico del Consorzio Interuniversitario Veneto per le Nanotecnologie (CIVEN).
- Membro del Consiglio Direttivo dell’Associazione Italiana d’Ingegneria dei Materiali (AIMAT).

### **Attività scientifica**

Autore di 295 pubblicazioni scientifiche. HI = 36.

Premiato nel 1992 dall’ International Commission on Glass with the “Professor Vittorio Gottardi Memorial Prize” “in recognition of his outstanding individual accomplishments in the field of glass”.

Organizzatore, nel 2001, dell’ 11th International Workshop on Glasses, Ceramics, Hybrids and Nanocomposites from Gels.

## **Ricerca**

- Sintesi di materiali vetrosi e ceramici con metodi chimici non tradizionali (sol-gel), loro caratterizzazione ed applicazione.
- Deposizione di film sottili inorganici mediante metodo sol-gel, loro caratterizzazione ed applicazione.
- Sintesi e applicazione di nanocompositi e materiali nanostrutturati.

## **Didattica**

Insegna attualmente i seguenti corsi:

- Scienza e Tecnologia dei Materiali Ceramici (Corso di Laurea Magistrale in Ingegneria dei Materiali)
- Scienza dei Materiali e Chimica Applicata (Corso di Laurea quinquennale in Ingegneria Edile e Architettura)