



Short CV

Prof. Gigliola Lusvardi

Present Position: Associate Professor in General and Inorganic Chemistry at the Department of Chemical and Geological Sciences of the University of Modena and Reggio Emilia since 1 November 2005.

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PREVIOUS POSITIONS AND FELLOSHIPS

- **From May 1996 to November 2001** Technical collaborator at the Department of Chemistry of University of Modena and Reggio Emilia
- **From November 2001 to November 2005** Associate Researcher (General and Inorganic Chemistry, CHIM03), at the Department of Chemistry of University of Modena and Reggio Emilia
- **From November 2005 to present**, Associate Professor (General and Inorganic Chemistry, CHIM03), at Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia.
- **From 2017** qualified as Full Professor by ASN.

AFFILIATIONS

- Member of the "Società Chimica Italiana (SCI)"
- Member of the Division of Inorganic Chemistry of the Italian Chemical Society (SCI)
- Member of the Doctorate School "Modellistica, Simulazione Computazionale e Caratterizzazione Multiscala per le Scienze dei Materiali e della Vita " dell'Università di Modena e Reggio Emilia., renamed from 2013 "Models and Methods for Material and Environmental Sciences";
- Member of the Interuniversity Consortium INSTM
- Member of Spanish and European Network of Excellence for the Prevention and Treatment of Osteoporotic Fractures, "Ageing" (www.agening.net).
- Member of Centro di Ricerca Interdipartimentale sulla Sicurezza e Prevenzione dei Rischi" (CRIS) dell'Università degli studi di Modena e Reggio Emilia.

RESEARCH

Author and co-author of over 100 publications on international and national journals

- Referee of international journal of inorganic and material chemistry: Material Chemistry, Journal of American Ceramics Society, Acta Biomaterialia., Journal of Colloid and Interface Science, Journal of Non Crystalline Solids., Materials Sciences & Engineering, Langmuir, Construction and Building Materials, Scientific Reports
- Guest Editor, Editorial Boards for Materials
- Talent research reviewer

BRIEF DESCRIPTION OF THE RESEARCH ACTIVITY

The research activity is mainly carried out in the field of inorganic materials; it concerns their synthesis and characterization from quali/quantitative point of view. In particular, it deals with the study of the properties of biomaterials, specifically bioactive glasses (silicate and phosphosilicate) in order to define the best conditions of synthesis, modulating also their dimensions for specific applications (scaffolds, drug delivery systems, self-assembled monolayers, coatings). Moreover, new formulations of bioactive glasses are studied through the addition of therapeutic inorganic ions (TTIs) and biomolecules (both of natural and artificial origin) with the aim of improving their properties, adding new ones for targeted applications of the new materials obtained. The characterization involves the use of specific analytical techniques and studies both *in vitro* and *in vivo* were performed to verify their applications for both hard and soft tissues.

PUBBLICATIONS

<http://personale.unimore.it/rubrica/pubblicazioni/lusvardi>