

CRISTINA LEONELLI CV IN ENGLISH OCT 2025

Degree in Chemistry in '86 at the University of Modena, after several experience supported with national fellowships in Modena and in U.S.A., she got Ph.D. in Chemistry in '91. From '92 to '98 she got the position of researcher/assistant professor at the Faculty of Engineering (Modena University) specializing in the field of Chemistry Applied to Ceramic Materials. After one year as associate professor at the Faculty of Engineering of the University of Naples "Federico II", she was back to Modena and Reggio Emilia University in 2000 where she is still active at the Faculty of Engineering, now renamed Department of Engineering "Enzo Ferrari"-DIEF. She got full professorship in 2005 in Chemical foundations of technologies (SSD: CHIM/07). From 09/05/2024, following institutional changes to the SSD in GSD, she is part of 03/CHEM-06 - CHEMICAL FOUNDATIONS OF TECHNOLOGIES. She has coordinated several national research projects and some international cooperation projects. At European level she was active in the Board of the COST Action D10 (2000-2002) and she coordinated the WG 003/04 -"Ultrasonic and microwave assisted synthesis of nanometric particles" in COST Action D32 (2004-2009). She was the Italian coordinator of the Joint Research Fellowship of the "The Royal Society" (UK) (2002-2004). At international level she coordinated the Bilateral mobility project promoted by the Italian Ministry of Foreigner Affairs: Sino-Italian Joint Commission for S&T Co-operation 2002-2005; Russian-Italian Joint Commission for S&T Co-operation 2002-2005, South Korea-Italian Joint Commission for S&T cooperation 2007-2009. She has also been Supervisor of ISTC Project with the Armenian counterpart: «Stone and Silicates» (2007-2010 and 2016-2018), and subcontractor of the European Cooperative Research under the ERA-NET MATERA Programme (2009-2012). She is member of the International co-operations in the Tekes-funded GEODESIGN project coordinated by the University of Oulu, Finland (2016-2018). Prof. Leonelli has been coordinator of the research group of DIEF partner in the European project FLOW-"Lightweight alkali-activated composite foams based on secondary raw materials", on EU funds ERA-MIN 2 Joint Call 2017, from 01/05/2018 to 30/04/ 2021. She also coordinates the DIEF research unit of the SIMPLIFY-"Sonication and Microwave Processing project of Material Feedstock", funded on SPIRE Call funds: H2020-NMBP-ST-IND-2018-2020 (INDUSTRIAL SUSTAINABILITY) from 01/11/2018 to 30/04/2023. Since 12 Sept 2018 till 11 March 2022 she has covered the role of Scientific responsible for the DIEF Research Unit in the PNR 2015-2020 funded national project: ARS01_00697 "AGM for CuHe – Materiali di nuova generazione per il restauro dei beni culturali: nuovo approccio alla fruizione". From 1 July 2025, she will coordinate the research unit of the four-year project 'Piloting Research and Innovation at Maritsa Iztok using wasted clays extracted during lignite mining for traditional and alternative construction materials – PRIMI', funded by the European RFCS-2024-JT programme. She has been Elected President of the European scientific association for the study of power microwaves - AMPERE EUROPE in the period 2009-2019, after having been member of the Board of Directors since 2003 and subsequently member of the Management Committee. Since 2009 it also takes care of the AMPERE website. She covers the role of Italian representative in the Technical Committee TC05- Nuclear and Hazardous Waste Vitrification, International Commission on Glass-ICG since 2007.

Her field of interest has been solid state chemistry with particular interest in the reactivity of ceramic powders and transition from amorphous to crystalline state. She has a personal experience in designing new composition, preparation and characterization of different powder and bulk ceramic materials as well as for application developments. She has also been active in the field of several innovative preparation techniques and microwave heating applied to materials processing and synthesis. She has been interested in modeling of material nano and microstructure and their relationship with macroscopic properties, such as the determination of failure probability in composite or bulk materials. A recent research field from 2008 is the alkali activation of aluminosilicate materials to obtain cement-like formulation with sustainable starting powders as industrial wastes or mines residues and debris.

She presented the results of her work in international and national conferences some of those have seen her as invited speaker, member of Organizing and Technical Committees. She has been member of the Editorial Board of Korean Journal of Materials Research, Journal of Microwave Power Energy and Electromagnetic Heating, Advances in Technology of Materials, Materials Processing Journal, Inorganics, Ceramics in Modern Technologies (2018-2020), and Frontiers in Solid State Chemistry (2020 on). She has been invited editor in a number of Special Issues in International Journal. In addition to carrying out numerous reviews for various international scientific journals,

she works as a reviewer for Italian as well as foreign research institutions (European Commission-European Science Foundation (ESF), Royal Society-UK, Engineering and Physical Sciences Research Council (EPSRC)-UK, The Netherlands Organisation for applied scientific research (TNO), The Israel Science Foundation (ISF), Katholieke Universiteit Leuven-B; The Helmholtz Association of German Research Centers-D, Natural Sciences and Engineering Research Council of Canada (NSERC), Slovak Research and Development Agency-APVV, Shota Rustaveli National Science Foundation of Georgia (SRNSFG)). Regarding the bibliometric parameters (updated in October 2025) Prof. Leonelli has a h-index author: 58, with 12,991 overall citations on 484 reviewed works on SCOPUS, as follows: Articles (362), Conference Paper (82); Review (13), Book Chapter (18); Editorial (8) Book (1). She is co-inventor of 4 national and 4 international patents.