Elena Landi. Master degree in Industrial Chemistry in 1990 from University of Bologna and Ph.D degree in Metallurgical Engineering in 1996. After research fellowship periods she took research positions (III level) at CNR in 1999 with permanent position from 2001; she is senior researcher (II level) from 2007.

Responsible for the Research Line ME.P06.018.001 "Biomineralization processes and development of nanostructured biohybrid composites, properly functionalized for a rapid response to the specific requests in regenerative and reparative site" (2009-2011).

Responsible for the Research Line SP.P01.033.008 "Innovative technologies for structures with functional porosity and complex architectures" of CNR (2011-2013)

Responsible for the Research Line ME.P06.018.002 "Biomimetic apatites for realizing bone bio-integrable substitutes" of CNR (2005-2008)

She has been Responsible for the Thermal Analysis Lab. (2000-2012) and Biomaterials Lab. (2004-2009).

Participant in National (PF MSTA, FIRB, PON, FLAG, POR FESR H2020) and European (FP6, FP7, H2020) projects. Responsible for Industrial Research and Consulting Contracts and Services also including the technological transfer process from the lab to the industry scale.

She has been CNR evaluator of MISE (Italian Ministry of the Industry and Economic Development) H2020 FCS projects (2014-2018).

College faculty member, representing ISTEC-CNR, of the PhD School "Sciences and Technologies of Materials" of University of Parma (cycles 29°-31°). Responsible for the relationships of ISTEC and the University of Bologna- Faculty of Industrial Chemistry – Faenza Section (2011-2016); She organized for high school classes guided tours of the laboratories, experiments and lessons dedicated to specific topics.

Supervisor of CNR research fellows, undergraduate and PhD students.

Referee for many scientific journals in the field of materials science and technology. Member of the Editorial Board of BioMed Research International. She is co-author of over 160 research papers in international journals, conference proceedings, book chapters and patents: IF 34 (cit. n. 5956) by Google Scholar (Dec. 2019).

The research activity and competences involve the development of new materials from the synthesis of nanopowders up to the realization of devices or prototypes both dense or with functional porosity, with ceramic or hybrid matrix, by thermal or chemical consolidation. The scientific and research interest involved the oxide and non-oxide structural ceramics, superconductors, biomimetic apatites and hybrid composites, geopolymers/alkali activated materials. At present she is particularly interested in the design and development (mainly through near-net-shaping techniques: direct foaming, replica methods, freeze casting/ice templating, etc) of functional porous materials with complex hierarchical architectures and different compositional and structural characteristics, depending on possible applications in various fields (lightweight-insulation, filtration, structural, chemical engineering, vibration damping, aerospace, CO_2 solid sorbents, biomaterials, solar energy sorbents, waste recycling, etc.).

Thermoanalytical techniques (thermo-gravimetric, differential thermal and dilatometric) applied to the study of the production processes and the study and characterization of materials, in synergy with auxiliary analytical techniques (SEM, EDS, XRD, FTIR etc..). Study of thermal stability and reaction kinetics of synthesis, oxidation, densification, etc.

http://orcid.org/0000-0003-4495-129X

Author ID: 7006768861