

CURRICULUM VITAE

Vincenzo Buscaglia

Institute of Condensed Matter Chemistry and Technologies for Energy - ICMATE
National Research Council - CNR
Via De Marini 6
I-16149 Genoa Italy

Personal details and position

Born: 7th November 1958

Nationality: Italian

Senior researcher at ICMATE-CNR (formerly IENI-CNR)

E-mail: vincenzo.buscaglia@ge.icmate.cnr.it

Research activity

More than 30 years of academic experience in R&D projects and activities concerning particle synthesis and functional ceramics. Topics:

- * Synthesis of perovskite oxide (nano)particles using solution chemistry methods;
- * Processing of functional ceramic materials;
- * Properties of dielectric, ferroelectric and multiferroic materials;
- * Diffusion and solid-state reactions;
- * Low-thermal expansion ceramics.

The main focus is on the composition-microstructure-property relationships in functional ceramic materials.

Recent memberships and appointments

- 2006-2013. Leader of the research group “Electroceramic Materials for Electronics and Energy”, IENI-CNR.
- 2011-today. Editor of Journal of the European Ceramic Society (JECS, Elsevier) for the section “Functional ceramics”. JECS is the leading journal in the category Materials Science–Ceramics of the JCR index with an impact factor of 3.4.
- 2012-2017. Member of the JECS Trust. The JECS Trust is a no profit organization for funding European projects on ceramics and, particularly, to support short-term missions of students/young researchers and organization of workshops and training schools.
- 2012-today. Lecturer of the course “Introduction to functional ceramic materials: structure, properties, preparation and application” at the Doctoral School in Materials Science and Technology, University of Genoa, Italy.
- 2013-today. Representative of Italy in the Advisory Committee of the Conference series “Electroceramics”.
- 2013. Lecturer of the course: “Functional ceramic materials: properties, applications and new perspectives”, Institute for Advanced Study of Pavia (IUSS), Pavia, Italy.
- 2014-today. Member of the Board of Delegates of IENI-CNR and ICMATE-CNR.
- 2015-today. Representative of CNR in the Governing Board of the Sustainable Energy Cluster (Polo Energia Sostenibile, PES) of Liguria Region. The PES is an organization involving companies and research institutes operating in the field of sustainable energy.
- 2017. Co-organizer of the topic “Electroceramics and Optical Materials”, 15th Conference of the European Ceramic Society, Budapest, 9-13 July 2017.

Recent invited lectures/keynotes at international conferences

- 2016. Nanostructured ferroelectric and dielectric ceramics. Processing and properties, 15th Edition International Conference Electroceramics XV, 27-29 June 2016, Limoges (France).
- 2015. From core-shell particles to dense dielectric ceramics and composites, 14th International Conference European Ceramic Society, 21-25 June 2015, Toledo (Spain).
- 2014. Chemical synthesis and properties of ferroelectric nanostructures and nanoceramics, 10th International Conference on Physics of Advanced Material (ICPAM), 22-28 September 2014, Iasi (Romania).
- 2014. Solution based processing of dielectric and ferroelectric perovskites, 14th Edition of the International Conference Electroceramics XV, 16-20 June 2014, Bucarest (Romania).
- 2014. Template-based chemical synthesis of ferroelectric nanowires, Workshop COST Action MP0904 “Single- and multiphase ferroics and multiferroics with restricted geometries” (SIMUFER), organizzato nell’ambito di 14th Edition of the International Conference Electroceramics XV, 16-20 June 2014, Bucarest (Romania).
- 2013. Precursor dependent morphology of hydrothermal SrTiO₃ nanostructures, 37th International Conference and Exposition on Advanced Ceramics and Composites (ICACC-13), 27 January – 1 February 2013, Daytona Beach, FL, USA.
- 2011. Grain size effects on the nonlinear dielectric properties of barium titanate ceramics, 12th European Meeting on Ferroelectricity (EMF 2011), 26 June – 1 July 2011, Bordeaux, France.
- 2011. Solution-based processing of ferroelectric nanostructured ceramic oxides, 11th Materials Science & Technology Conference (MS&T’11), 16-20 October 2011, Columbus, OH, USA.
- 2010. Nanopowders and Nanostructures by Solid-State Reaction. Microstructure Control through Nanoscale Engineering, 3rd International Congress on Ceramics – ICC3, 14-18 November 2010, Osaka, Japan.

Publications and patents

- Author or co-author of 147 papers on international ISI journals with about 4300 citations. H-index: 36 (WoS), 43 (Scholar).
- Co-inventor of 1 international patent and 1 Italian patent.