

PERSONAL INFORMATION

Tiziana Ferreri

Profilo: Tecnologo III livello

Sede di appartenenza: Istituto di Chimica Biomolecolare del CNR di Catania

E-mail: tiziana.ferreri@cnr.it

E-mail: t.ferreri@icb.cnr.it

PEC: tiziana.ferreri@pec.chimici.it

Contatto telefonico: 0957338353

ORCID: ORCID: <https://orcid.org/0000-0002-4051-4191>

Professional Experience

Tiziana Ferreri graduated in Industrial Chemistry (grade, 110/110 *cum laude*) at the University of Catania, Italy, on July 2002, she discussed an experimental thesis entitled "Photooxidation products of Ultem polyether imide".

In 2003 she was qualified as a freelance chemist.

From 2002 to 2004 she was quality assurance manager and head of the Chemical/Biological laboratory at Medical System srl, in charge to the Quality System and organizing/supervision the chemical-biological tests on biomedical devices.

In 2004, during her internship at Sviluppo Chimica S.p.A. she was involved on the management of Venture Capital projects in Sicily, she drew up Business Plans and an economic and scientific development plan for Sicily.

In 2005, on behalf of the Province of Caltanissetta, She drew up the executive project to launch of an Environmental and Agri-food Analysis Laboratory

From 2005 to 2017 she worked at the Institute for Composite and Biomaterial Polymers of the CNR in Catania, where she has been involved in the planning, drafting and development of research projects at regional, national and international levels.

Among the research support activities, she has been involved in the development of polymeric systems with antimicrobial activity for both biomedical and food packaging sectors.

She collaborated in the development of Pathways for Transversal Skills and Orientation (PCTO, former ASL) with secondary schools, also acting as a tutor for students in laboratory activities.

In 2010 she was included in the Long List of scientific experts for the evaluation of research projects relating to the PO FESR 2007-2013 of the Sicily Region.

In 2011 she was appointed by Banca Nuova S.p.A to evaluate the research, development and innovation projects presented in the context of the Call P.O. FESR Sicily 2007/2013 of the intervention line 4.1.1.1. as part of the P.O.

Since October 2019 [she is employed as a CNR Technologist](#) at the Institute of Biomolecular Chemistry [branch of Catania](#).

SCIENTIFIC ACTIVITIES

Main interests:

- Synthesis and characterization of ionic liquids
- Development of antimicrobial materials based on PVC, PP and SEBS Thermoplastic Elastomers with nanoparticles, Ag zeolites and ionic liquids
- Development of bituminous materials modified with recycled PE
- Preparation of activated carbon through pyrolysis processes of recycled tetrapacks
- Synthesis and characterization of polymeric materials by DSC, TGA, HPLC, NMR, GPC Mass Spectrometry Maldi TOF

Keywords

Design, technology transfer, training, antimicrobial agents and materials

Publications

Zampino, D., Mancuso, M., Zaccone, R., ...Recca, G., Puglisi, C., Thermo-mechanical, antimicrobial and biocompatible properties of PVC blends based on imidazolium ionic liquids. *Materials Science and Engineering C*, (2021), 122, 111920.

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E. Lallana, T. Ferreri, S. Carroccio, A. Puga, N. Tirelli "End-group rearrangements in poly(propylene sulfide) MALDI-TOF analysis. Experimental evidences and possible mechanisms". *Rapid Communications in Mass Spectrometry* (2012), 26, 2158-2164.

Zampino D., Ferreri T., Concetto P., Mancuso M., Zaccone R., Scaffaro R., Bennardo D. (2011) - PVC silver zeolite composites with antimicrobial properties. *Journal of Materials Science*, (2011), 46, 6734-6743.

Zampino, D., Ferreri, T., Puglisi, C., Zaccone, R., Scaffaro, R., AG-composites with antimicrobial properties. *AIP (American Institute of Physics) Conference Proceedings*, (2008) 1042, 240-242.

Filippo Samperi, Concetto Puglisi, Tiziana Ferreri, Rosario Messina, Gianluca Cicala, Antonino Recca, Carmelo Luca Restuccia, Andrea Scamporrino - 2007 "Thermal decomposition products of copoly(arylene ether sulfone)s characterized by direct pyrolysis mass spectrometry". *Polymer Degradation and Stability*, 92 (2007) 1304-1315.

Sabrina Carroccio, Concetto Puglisi, Giuseppina Scaltro, Tiziana Ferreri, Giorgio Montaudo – 2007 "Matrix-assisted laser desorption/ionization time-of-flight investigation of Nylon 6 and Nylon 66 thermo-oxidation products" *European Mass Spectrometry Journal*, 13(6) (2007) 397-408.