

Daniele Maccio'

Researcher

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Education and training

1990

Master in Science and Technology of materials

Studio dei sistemi Mg-terre rare (An investigation of Mg-rare earth systems)

- 46/50

University of Genoa - Genoa - IT

1988

Degree in Industrial Chemistry (5 years)

Studio della potenzialità dell'anello furanico per la formazione di mesofasi termotropiche - 110/110 e lode

University of Genoa - Genoa - IT

Academic experience

2000 - ONGOING

Research assistant (TI)

University of Genoa - Genoa - IT

Language skills

English

Independent

French

Basic

Research interests

My research activity deals with physical chemistry of alloys, through experimental investigation of phase equilibria in metallic systems. The techniques used are X-ray diffractometry, electron microscopy, and in particular, thermal analysis techniques. Further interest in the last years is on synthesis and characterization of new metallic alloys with electrocatalytic activity, and electrochemical corrosion in metallic alloys, and in some cases biocompatibility studies.

Member of INSTM (Italian Interuniversity Consortium on Material Science and Technology) and CRESIS (research Centre for Eco compatibility, safety and Innovation of chemical substances)

From the 90's on, collaboration with the group of Prof. P. Rogl of Wien University, resulting in several papers dealing with basic and applied research, in particular on alloy systems of interest in thermoelectricity field.

Further research on the latter was done, moreover, at local level, with the group of Prof. G. Zanicchi.

From 2001 on, research activity with Prof. F. Rosalbino of “ Politecnico di Torino “ in the field of electrochemical behaviour of metallic alloys containing rare earth metals, and, cooperating with the group of Prof. R. Quarto of Genoa University, of investigation on new materials for biochemical use.

Further collaborations are with the group of Prof. D.S.P. Cardoso of the “Center of Physics and Engineering of Advanced Materials” (CeFEMA) in Lisbon University, working on synthesis and characterization of new materials, suitable for hydrogen evolution reactions (HER), and on Direct Borohydride Fuel Cells. Finally, Cooperation with the Metallurgy group in Genoa University, resulted in some papers and communication, and a PRIN research project.