

Silvia Bodoardo - Curriculum Vitae

Dr Silvia Bodoardo, born in Turin on 1965 October the 10th, degreed in chemistry at the Turin University, Faculty of Science. She degreed her PhD in Materials Engineering at Politecnico of Milan. She is actually Researcher at the First Faculty of the Politecnico di Torino. She actually teaches Chemistry at the 1st Faculty of Politecnico di Torino and is also teacher in Applied Chemistry, Materials Technology and Electrochemistry

In the years, the research activity of Silvia Bodoardo followed these lines:

- Study in the catalytic activity of microporous materials.
- Study on the electrochemical behaviour of zeolites and asbestos
- Structural characterization and electrochemical properties of manganese dioxide, as active material in alkaline batteries
- Research regarding lead acid battery
- Study on films of high Tc superconductive materials
- Electrochemical characterization nano- and mesoporous materials containing redox active metal species.
- Study on electrochemical process of oxygen reduction on WC/Co powders which leads to lung disease formation
- Synthesis and characterization of electrodic materials for Li-ion cells.
- Synthesis and characterization of polymeric electrolytes for Li-ion cells.

Some years ago Silvia Bodoardo started a course of investigations on the correlation between the electrochemical behaviour and the crystallochemical characteristics of materials suitable as electrodes to the Li-ion battery. Many and important publications are related to the synthesis and the characterization of LiFePO₄ cathodic materials and on the study of new polymeric electrolytes suitable for Li ion cells. As Li cells are concerned, in the last years, many papers were published both on anodic materials and on polymeric electrolytes, both gels and solid, with high ionic conductivity.

Some interesting researches were developed on the study of thin films of superconductive materials used in particular electrical applications at low temperatures.

Silvia Bodoardo is referee for some international Journal, as e.g. Thin Solid Films and European Ceramic Society, Electrochimica Acta, Ionics.

She is also evaluator for the EU Commission.