

Catia Arbizzani is Associate Professor of Physical Chemistry at Bologna University (UNIBO). She graduated in Chemistry in 1987 at UNIBO and in 1991 she got the PhD in Chemical Science at Pavia University with the thesis "Chemical-physical properties of electronic and ionic conducting polymer materials for rechargeable batteries" that was awarded in 1995 with "Mario Lazzari Prize". Her research activity has been focused on materials for energetics: electronic conducting polymers and ionic conducting polymers, metal oxides and alloys, and carbonaceous materials for fuel cells, lithium-ion batteries and supercapacitors. The most recent activities have seen the study of the contribution of graphene-derived materials as additives in high-potential cathode materials for Li-ion batteries, of the role of binders in high-potential cathodes with aqueous formulations and of the properties and reactivity of electrode and electrolyte interface, with particular focus on superconcentrated electrolytes in lithium-ion, Li/O<sub>2</sub> and Li/sulphur batteries. Li metal interface was investigated as well as the in-situ protection of cathodes in high-voltage Li-ion and Li/S batteries. She is Scientific Responsible of the Laboratory of the Electrochemistry Materials for Energetics (LEME) at the Department of Chemistry "Giacomo Ciamician" (UNIBO) since 2014 and is co-author of 111 peer-reviewed publications, 7 book chapters, 1 Encyclopaedia entry and 2 patents. She is Editor of the Journal of Power Sources (Elsevier) and member of the Editorial Board of Batteries (MDPI) and of La Chimica e L'Industria (National Council of Chemists). She is PI since 2011 of annual Projects (7 up to now) in the Program Agreement between the Italian Ministry for Economic Development and ENEA in the frame of Electric System Research. In the last three years UNIBO task was the study of electrolyte and interface in Li/S batteries. She was PI for MIUR-DAAD Joint Mobility Program "Interface properties of electrode materials" (2016-2018) and Co-PI of UNIBO Partner of the FETOPEN-01-2016-2017 Project MAGNIFY (2018-2022).