

Curriculum Vitae-Abstract

Michele Aresta, Doctor Industrial Chemistry, University of Milan, Milan-IT. Research Assistant University College London 1969-70. Lecturer University of Bari-IT, 1970-78; Professor of Inorganic Chemistry University of Bari and Lecce-IT, 1979-1985; Professor of Chemistry, University of Bari-IT, 1986-2012.

Present position: President of the Scientific Council of the Interuniversity Consortium on Chemical Reactivity and Catalysis, Italy; IMM chair at the Department of Chemical and Biomolecular Engineering-NUS, Singapore; David Parkin Professor at the University of Bath-UK; Honorary Chair at the Chemical Engineering Faculty, University of Tianjin, Tianjin, China.

Scientific interests are in the fields of Chemistry of small molecules (N₂, H₂, O₂, CO, CO₂, ethene, allene, propene, butadiene); Metals in low oxidation state (also negative); Co-ordination chemistry; Reactivity of co-ordinated molecules; Reaction mechanisms; Catalysis; CO₂ chemistry; CO₂ as building block for chemicals and carbon source for fuels; Photocatalysis; Utilization of biomass; Conversion of polyols; Conversion of long chain acids and esters; Polyunsaturated compounds; Valorization of polyols; New bio-sourced monomers for polymeric materials.

Author of over 250 papers in peer reviewed high IF international journals and of 12 books on CO₂ and Biomass valorization.

Co-owner of several patents.

Plenary Speaker at over 60 International Conferences

Invited speaker by over 100 Universities worldwide, including Anna University-Chennai and Pune Research Center.

Founder and Honorary Chair of the International Conference on Carbon Dioxide Utilization-ICCDU.

President of the Inorganic Chemistry Division of the Italian Chemical Society (2005-2008).

Chair of the Inorganic Chemistry Division of EUChE MS (2009-2012).

Representative of Italy in the Boards of TEMPUS EU Programme, IEA-Paris GHG Programme, IPCC Panel on CO₂ emission control.

Award of the Italian Chemical Society for the "Pioneering work on Carbon Dioxide Activation (and utilization)" 1990;

Renoir Award for the dissemination of Science, 1990;

Award of the Société Française de Chimie, 1995 for Inorganic Chemistry;

Award of the Tianjin University, Tianjin China, for Green Chemistry 2002.

Several recognitions from the American Chemical Society for the dissemination of "CO₂ Utilization".

Doctor Honoris Causa in Engineering, University of Bath, Bath, UK

Honorary Professor Faculty of Chemical Engineering, University of Tianjin, Tianjin, China