

Gabriele Balducci

Curriculum Vitae

Gabriele Balducci was born in 1958. He obtained the degree in Chemistry at the University of Trieste and the PhD in Chemical Sciences at the same University. During 1990-1991 he was assignee of a grant from Italian CNR for a post-doc fellowship at the "Laboratoire d'électrochimie moléculaire", Université de Paris 7, where he worked with Prof. J-M. Saveant on the interaction of molecular oxygen with porphyrin systems. Since 1991 he is a researcher at the Department of Chemical Sciences of the University of Trieste.

His scientific interests have ranged from molecular electrochemistry (1984-1992), to theoretical chemistry and the study of dynamical non linear models for complex physico-chemical systems (1992-1993), to heterogeneous and homogeneous catalysis studied with computational methods (1994-2010), with focus on the ab initio study of catalytic systems based on cerium and titanium oxides.

His most recent research activity is shared between the crystallography of coordination complexes with applications in supramolecular chemistry and biomedicine, and the theoretical study of photoabsorption and photoemission processes of molecular systems adsorbed onto periodic surfaces.