

Curriculum vitae - prof. Robertino Zanoni

Dipartimento di Chimica, Università La Sapienza, Rome

Robertino Zanoni has been conducting research for more than 40 years on how functionally active organics, inorganic and metallorganic molecules interact at the nanoscale with different types of surfaces and solids, from simple physisorption mechanisms to the establishment of covalent bonding, of host-guest supramolecular interactions or molecular activation and decomposition. This topic has been applied in molecular electronics, catalysis, new energy sources, and biological systems. So far, the investigated surfaces include oriented silicon wafers for electronics, metal electrodes, biopolymers, carbon nanotubes, fullerenes and graphene, molecular clusters and colloidal nanoparticles, model and real catalysts. These studies have been conducted by use of some of the most suitable spectroscopic and nanoscopic techniques, primarily photoemission spectroscopies (XPS and UPS) and STM/AFM microscopies and with the help of theoretical calculations. He holds a pioneering experience dating back to 1984 in the chemical applications of synchrotron radiation techniques (photoemission, EXAFS, spectromicroscopy, photon-stimulated desorption), always upon approval of original projects. He is leading a group working at La Sapienza operating in the field of the structural electronic characterization of surfaces and solids, and he is responsible of a large-scale apparatus for photoemission spectroscopies and microscopies and for AFM/STM nanoscopies.

Author/coauthor of 180 publications in peer-reviewed scientific journals [H-index: 33 (Scopus), 36 (Google Scholar), over 4000 citations]. Co-author of one patent on a procedure for making polymer surfaces adherent to cell cultures, Patent n. RM99A000351 2/6/1999. Co-author of a university textbook in Chemistry and 18 book chapters, co-editor of an issue of the intnl. journal 'Superlattices and Microstructure' and editor of a university textbook on Chemistry. He had 30 invited speaker presentations in international/national meetings. He has been PI of two National Interest Research Projects ('PRIN') funded by MIUR, and Unit Head of two EU projects on nanoparticles (HC&M; Science), three PRIN-MIUR projects and other national projects. He co-chaired the 2nd International Congress on Nanostructures Self-Assembling (NANOSeA 2008), gathering over 200 scientists from all over the world. Project referee for EU projects from 6th Framework Program on, for MIUR (PRIN and ANVUR), CNR, ASI and for various university funded projects.

He retired on September 1, 2022.

Appointments

- Full Professor of General and Inorganic Chemistry, Università degli Studi di Roma "La Sapienza", Faculty of Sciences, Dept. of Chemistry (since 1/2005).
- Responsible since 2002 at La Sapienza of a large-scale apparatus integrating a photoemission spectrometer, a spectromicroscope and an STM/AFM microscope, operating in ultra-high vacuum.
- Member of the School of Doctorate in Chemistry, La Sapienza

Education and Training

1974 – 1979 University degree in Chemistry (5 years course) at La Sapienza, summa cum laude.

1969 – 1974 Classical High School Diploma, Rome.

Professional Experience

1/2005 – present Full Professor (national open application won in June 2003) of General and Inorganic Chemistry, Università degli Studi di Roma "La Sapienza", Faculty of Sciences, Dept. of Chemistry.

2008-11 Elected member of the national Inorganic Chemistry steering group of the Italian Chemical Society (SCI).

2004-11 Elected member of the Review Committee “Surfaces and Interfaces” of the ELETTRA synchrotron facility (Trieste).