

Prof. Ugo Cosentino was born in Milan, Italy, in 1959.

-) Degree in Chemistry in 1985, at the University of Milano
-) Ph.D. in Chemical Sciences, in 1992
-) Assistant Professor in Physical Chemistry, in the 1993-2000 period
-) Associate Professor in Physical Chemistry from 2001 at the University of Milano-Bicocca.

Scientific activity

Prof. Cosentino is co-author of 52 papers (45 of which quoted by ISI) mostly on international journals with peer review procedure.

The research activity field concerns the computational modeling of molecular systems focused on the investigation of structure-properties relationships, by means of quantummechanical and classical (molecular mechanics and molecular dynamics) computational methods.

His activity focuses on molecular systems of biological and environmental interest:

-) catalytic role of copper oxide in persistent free radical formation from aromatic compounds oxidation;
-) catalytic role of aluminium complexes in CO₂ fixation;
-) stereo-electronic properties and reactivity of enzymatic systems;
-) spectroscopic and stereo-electronic properties of lanthanide complexes;
-) prion peptides and defibrillant agents of prion aggregates;
-) interaction of contaminants with enzymes;
-) mechanisms of formation and destruction of PCDD/PCDF on fly ash from municipal solid waste combustion plants;
-) methodology development for investigation of Three Dimensional Quantitative Structure Activity Relationships (3D-QSAR) of biological active compounds.

Prof. Cosentino was the Scientific Responsible of research unit (RU) in the PON project: SNIFF, Sensor Network Infrastructure For Factors (2012-2014); he was Scientific Responsible of RU in the CNR Target Project on Biotechnology concerning (1998 - 2001) and component of the RU in PRIN and CNR projects. Reviewer for several scientific journals and for PRIN 2008 and 2009 and FIRB 2010.

Academic activity

From 2008 prof. Cosentino is the National Coordinator for the Chemistry area of the “Piano Lauree Scientifiche”, a MIUR project aimed to increase the enrolment to the degrees in Chemistry, Mathematics, Physics, and Material Sciences. As national coordinator he monitors the 33 local projects for chemistry, evaluates results and yearly proposes the funding for the new projects to the Technical Scientific Board of MIUR. In 2011 prof. Cosentino has also been appointed by MIUR as member of the board for the coordination of the activities for the International Year of Chemistry. 2008-2012 member of the committee for guidance of the University of Milano-Bicocca; 2004-2012 local coordinator for chemistry of the Piano Lauree Scientifiche at the University of Milano-Bicocca;

Didactic activity

Prof. Cosentino teaches as associate professor from 2001 courses of Physical Chemistry, Physical Chemistry Laboratory, and Computational Chemistry in the degree in Chemistry and Environmental Sciences.

2000-2016 he was member of the PhD school in Chemical Sciences of the University of Milano-Bicocca.