

Luisa TORSI

full professor of Chemistry

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Luisa Torsi is full professor of Chemistry since 2005 and is the President of the European Material Research Society (E-MRS), being the first woman to hold both these roles. She received her *laurea* degree in Physics from the University of Bari in 1989 and the PhD in Chemical Sciences from the same institution in 1993. She was post-doctoral fellow at Bell Labs from 1994 to 1996. In 2005 and 2006 she was invited professor at the University of Anger and Paris 7, respectively and has been coordinator of the council for the degree courses in Materials Science and Technology at the University of Bari from 2011 to 2015.

In 2010 she has been awarded with the Heinrich Emanuel Merck prize for analytical sciences, this marking the first time the prestigious award is given to a woman. She is also the recipient of the 2013 "Best Italian Inventor Women" prize of the Italian Women Inventors & Innovators Network (IT-WIIN). This award made her eligible for the Global-WIIN competition where she has been awarded with the main overall platinum prize for 2015. She has also served as Chair of the E-MRS 2012 (Strasbourg) and of the MRS 2015 Fall Meeting (Boston).

Prof. Torsi had been serving extensively as expert reviewer for the European Commission being for three years the Chair of the Chemistry Panel for the evaluation of the Marie Curie Research Fellowships. She has been also member the Physical and Engineering Science 05 panel of the European Research Council for the evaluation of the consolidator grants. Once appointed as member of the H2020 Program Committee of the Italian Ministry for Education and Research in 2014, she could not serve as independent expert for the European Commission anymore.

Her principal scientific contributions are in the fields of advanced materials and electronic devices mostly employed for sensing applications. Recently she co-investigated interfacial electronic effects in functional biological systems integrated into organic field-effect transistors (OFETs). The devices show exceptional sensitivities (down to sub-pM detection limits) and selectivity. Achievements comprises also the realization of a solid-state device capable of electronic chiral detection at very low concentrations as well as the measurement of multi-parametric responses in OFETs. She has also contributed to the demonstration of the two-dimensional field-induced conductance in OFETs.

Torsi has authored *ca.* 150 ISI papers, including papers published in Science, Nature Materials, Nature Communications, PNAS and is co-inventor of several awarded international patents. Her works gathered almost 7800 Google scholar citations resulting in an h-index of 43 (ISI h-index: 39). She has given more than 150 invited lectures, including almost 20 plenary and key notes contributions to international conferences.

Awarded research funding comprises several European contracts as well as national and regional projects. She is presently the coordinator of a "European Industrial Doctorate" Marie Curie project in collaboration with Merck and is principal investigator in a Marie Curie ITN. She has also coordinated a Marie Curie ITN European network, several national PRIN projects and was principal investigator in an ICT STREP proposal. The total budget awarded to Torsi and to the consortia she has coordinated is over 5 M€. She is also the scientific coordinator of a Structural Reinforcement PON Project awarded to UNIBA for 2012-2014 with 13 M€.

Prof. Torsi is also committed to the role of model for younger women scientists. She has been giving a number of talks on this topic in local high schools and cultural associations such as Rotary and Soroptimist. She is also member of the National Board of the STAGES European project that aims at implementing strategies to trigger structural changes addressing the issues connected with gender inequality in science.

Married since 1991 she is mother of Alessandro, born in 1993, and Vincenzo born in 1997.