

**Prof. Eloisa Sardella**

Institute of Nanotechnology,
CNR-NANOTEC, BARI, Italy

Eloisa Sardella was born in Catania, Italy, in 1975. She obtained her Ph.D. in Chemistry in 2003 at the University of Bari, Italy. In 2008 she became a researcher of the CNR-Institute of Nanotechnology, Bari, Italy.

Her research focuses on non equilibrium plasma processing (low and atmospheric pressure plasma) aimed to modify surfaces of different materials intended to be used in different fields of technological applications. After more than 10 years of experience in modifying surfaces of planar and porous materials as well as micro- and nanoparticles in the biomedical field, she recently moved to the novel area of plasma medicine focusing her research on the application of atmospheric plasma processes directly on living cells and on liquids of biological interest with a particular focus on the balance between reactive oxygen and reactive nitrogen species as a driving force to promote desired cell responses.

In the field of plasma medicine, she collaborated with the Leibniz Institute for Plasma Science and Technology (INP) for the set up of some prototypes and plasma sources. She collaborates also, with the Department of Microbiology and Immunology of the Drexel University College of Medicine, in the assessment of the activation of Immunological Cell Death by plasma treated solutions.

She is author of more than 60 papers published in international peer reviewed journals as well as about 10 invited book chapters and one patent (Hindex: 22; Scopus). She participated as invited speaker to more than 10 international congresses.

In 2018 she was part of the international committees for the assignment of the Graduate Student Award Session Judge at the MRS Fall Meeting and in 2019 of that on for the assignment of the Best poster award e Best oral award during the Thematic Award: Material Processing (24th International Symposium on Plasma Chemistry). she was honored with the "Best Paper Award" at the 18th International Symposium on Plasma Chemistry in Kyoto, and in 2012 she received a special mention to the BarCamp titled "Italia Camp- your idea for the country" with the idea titled "plasma3D". She is co-organizer of symposium L-Carbon- and/or nitrogen-containing thin films and nanomaterials- at the E-MRS 2020 Spring Meeting. She is guest editor of a special issue of Plasma Processes and Polymers titled "Advanced Applications of Plasmas in Life Sciences" (2020).