

She graduated in Physics laude from the University of Bologna on July 18, 1997 discussing the thesis "*Simulations of inversely polarized p-n junctions with out-of-focus techniques and electronic holography*". Supervisor prof. Giulio Pozzi.

PhD in Physics on 12 February 2001 at the University of Modena and Reggio Emilia with thesis: "*Magneto-optics in the soft X-ray region*". Supervisor prof. Stefano Nannarone.

Associated Professor at the University of Modena and Reggio Emilia since, already confirmed researcher at the National Research Council since 1 February 2010.

Author of more than 60 international scientific publications and inventor of 15 international patents dedicated to the design of new semiconductor molecules and the development of new device architectures for the realization of displays, bio-sensors, photo-sensors and photovoltaic cells in the field of organic technology.

Specialized in theoretical physics, after few years devoted to the ab-initio simulation of reflectivity with circular polarized synchrotron light applied to the study of inorganic epitaxial interfaces, started the experimental activity by working on the first prototypes of organic light emitting transistor, gaining experience in the growth and the opto-electronic characterization of organic devices. The theoretical background allowed to model the working principle of this novel typology of device and to develop a new approach for the realization of high performance light emitting transistors. She coordinated the development of this new architecture until the realization of display prototypes having performance comparable with commercial AMOLEDs. Nowadays the theoretical experience is combined with the experience with real devices development for fundamental studies on the molecular thin film based device working, i.e. modelling of molecular packing and charge carrier 3D evolution through ab-initio simulation of X-ray spectroscopy experiments performed on in-operando devices.

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