DALDOSSO NICOLA

SHORT BIOGRAPHY

PROFESSOR PHYS-03/A - Experimental Physics of Matter and Applications
Department of ENGINEERING for INNOVATION MEDICINE
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Nicola Daldosso was born in Verona, Italy, 1972. He graduated in Physics at the University of Trento in 1997. He received the Ph.D. degree in Physics of Matter at Université J. Fourier of Grenoble, France, in 2001. From 1998 to 2000, he was at the Italian beamline GILDA at ESRF (European Synchrotron Radiation Facilities) in Grenoble. Since 2001 he is at the University of Trento, Physics Department in the Nanoscience Laboratory as associate researcher.

His research interests include structural and optical properties of nanostructured materials (in particular nano-silicon), and integrated optoelectronics (photonics) on silicon and development and characterization of materials for NanoMedicine. Specifically, research activities concentrate on the fabrication, functionalization (chemical and physical), and characterization of nano-systems, including nanoparticles and micro/nano-porous materials, for applications in drug delivery and diagnostics, primarily in the field of Nanomedicine, but also in environmental contexts. A key aspect of this research involves investigating the effects of different nanoparticles (functionally modified and loaded with anticancer and anti-inflammatory drugs) on cells, through in vitro experiments, as well as the study of immunological reactions.

Another line of research focuses on the structural characterization and modeling of glasses and ceramic materials.

His main research contribution has been done in the field of interactions of matter with particles and radiation, in which photoluminescence and fluorescence techniques as well as Raman and IR spectroscopies were used to study the optical and structural properties of matter.

He has been involved in several European and national research projects on Si-based Photonics and material science. He is author of 120 papers, co-author of 8 chapter books/books, holds 1 patent. He has been invited at 21 international conferences, he has been chair and organizer of international symposium and workshops, and he is referee of several international scientific journals.

Research sector (ERC) - ORCID: 0000-0002-5578-4223
PE3_10 - Nanophysics: nanoelectronics, nanophotonics, nanomagnetism, nanoelectromechanics, etc.
PE3_13 - Structure and dynamics of disordered systems: soft matter (gels, colloids, liquid crystals, etc.), glasses, defects, etc.

Sum of the Times Cited: 2993 [without self-citations: 2206]
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h-index: 29