

Background

Assistant Professor of the Department of Electronics of the University of Alcalá and collaborating researcher to the Energy Conversion, Harvesting and Storage research group of the Institute of Materials Science of Madrid (CSIC).

His teaching focuses on the area of knowledge of Electronic Technologies. He teaches in different degrees and holds a master's degree in Engineering in the area of Information and Communication Technologies (ICT) at the Higher Polytechnic School. He specializes in **Electronic and Microelectronic Technology and Electronic Design**.

His research lines are mainly focused on the integration, characterization, modelling and application to electronics of ferroelectric/piezoelectric materials with perovskite structure with different compositions.

Its line has evolved in the combination of these piezoelectric materials with magnetic materials to manufacture multiferroic materials (in a single phase and composites) **for energy harvesting systems**. Its line has evolved in the combination of these piezoelectric materials with magnetic materials to manufacture multiferroic materials (in a single phase and composites) for energy recovery systems.

Education

Degree in Physics (Specialty in Applied Physics) from the Universidad Autónoma de Madrid on February 13, 1992.

PhD in Physics from the Universidad Autónoma de Madrid (1997) in the Department of Materials Physics.

Work Experience

Teaching experience of more than 20 years in ICT Degrees

Electrical characterization of Piezoelectric materials.

Tutor of more than 10 final degree works in electronics, where it is worth highlighting "Design of an energy harvesting system based on piezoelectrics".

Simulation of electronic systems with finite elements.

Programming the labview of DAQ systems