

Organization: *National Institute for RD in Microtechnology (IMT-Bucharest)*

Web Page: *www.imt.ro*

Country: *Romania*

Main Activity: *Research*

Department: *Simulation, Modelling and Computer Aided Design Laboratory*

Contact Person: *Rodica Plugaru*

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Other Contact Data:

Profile:

- Research activities in the fields of microtechnologies, materials for electronic devices, devices developments, characterization, simulation, and modeling.

Participation to European Projects:

- Optimization of growth processes of organic thin films in silicon integrated devices technology.

Development of technological processes for tunneling diodes integration in optical devices.

Research fellowship, EPFL- Switzerland, 2005-2006.

Characterization of semiconductor oxides for gas sensing applications.

NATO-fellowship DC, Spain, 2003.

Study of light emission processes of nanocrystalline semiconductors.

Research grant SB 2000-0164 MCYT of Spain, 2001-2003.

Study of nanostructures of porous silicon by cathodoluminescence microscopy.

NATO Collaborative Research Grant in High Technology, 1997-1998.

Light emission processes in nanocrystalline silicon.

Bilateral project Ro-Spain, 1998-2000

ICT-2007.3.1: Next-Generation Nanoelectronics Components and Electronics

competence / resources

Characterization of electronic materials and devices, defects in materials and devices, physical phenomena in nanostructured materials, surfaces, interfaces. Technological facilities, microscopy and spectroscopy techniques.

proposal / interest

Characterization and physical modeling of phenomena related with materials, basic devices and interconnect structures for nanoelectronics.