



Dr. Ramon Schifano

Research Associate in the Group of Technology of Oxide Nanostructures

Holds the position from 1.02.2014

FIELD OF EXPERTISE

Schottky contacts and electrical characterization of ZnO by capacitance spectroscopy and galvanomagnetic techniques, ZnO deposition by sputtering for TCO applications and its devices applications.

Academic preparation

2003, Msc in Physics at the “Università degli studi di Firenze”, Florence, Italy

2009, Ph.D in Physics at the “University of Oslo”, Oslo, Norway.

Academic experience

2004 - 2005 Marie Curie exchange student at the Linköping University Department of Physics and Measurements Technology (IFM) (young researcher-less than 4 years experience-fellowship)

February 2008 visiting Ph.D at the University of Pretoria, Department of Physics, Electronic Materials & Thin Films Research group

2009 – 2013, Post Doc in Physics at the “University of Oslo”, Oslo, Norway **Research project: Oxides for tandem cells** part of *The Norwegian Research Centre for Solar Cell Technology-FME-SOL*

2013 - 2014 NorFab trainer in RF/DC magnetron sputtering, e-beam deposition, temperature dependent Hall measurements (TDH)

Selected publications

1 R. Schifano et al. *Electrical characteristics of palladium Schottky contacts to hydrogen peroxide treated hydrothermally grown ZnO*, Appl. Phys. Lett. **91**, 193507 (2007).

2 R. Schifano et al. *Defects in virgin hydrothermally grown n-type ZnO studied by temperature dependent Hall effect measurements*, J. Appl. Phys. **106**, 043706 (2009).

3 Z. Zhang, D. C. Look, R. Schifano, et al. *Process dependence of H passivation and doping in H implanted ZnO* J. Phys. D, **46**, 055107 (2013)