

## 1. Personal information

**Name and surname:** Alicia Petronela RÂMBU

**Date and place of birth:** June 23, 1981, Botoșani, România

**Present academic position:** Scientific Researcher, Ramtech Center, Science Department, Alexandru Ioan Cuza University of Iasi, Romania

**Current address:** Ramtech Center, Alexandru Ioan Cuza University of Iasi, Romania, Blvd. Carol I, no. 11, Iași, RO-700506, Romania

**Phone number, e-mail address:** +40232 201102 interior 2515, [alicia.rambu@uaic.ro](mailto:alicia.rambu@uaic.ro), (<http://www.ramtech.uaic.ro/>)

## 2. Education

2006-2009 Ph.D. studies at Alexandru Ioan Cuza University of Iasi, Romania

2004-2006 Master of Thin Film Physics, Alexandru Ioan Cuza University of Iasi, Romania

2000-2004 Faculty of Physics, Alexandru Ioan Cuza University of Iasi, Romania (*Bachelor in Physics*)

1996-2000 „Nicolae Bălcescu” High School, Flamâzi, Botoșani, România

## 3. Selected, peer-reviewed research work

1. **A.P. Rambu**, L. Ursu, N. Iftimie, V. Nica, M. Dobromir, F. Iacomi „Study on Ni-doped ZnO films as gas sensors” **Applied Surface Science**, 280, pp. 598–604, 2013.
2. **A.P. Rambu**, V. Tiron, V. Nica, N. Iftimie, „Functional properties of ZnO films prepared by thermal oxidation of metallic films”, **Journal of Applied Physics**, 113, pp. 234506-234511, 2013.
3. **A.P. Rambu**, N. Iftimie, V. Nica, „Effect of In incorporation on the structural, electrical and gas sensing properties of ZnO Films”, **Journal of Materials Science**, 47(19), pp. 6979-6985, 2012.
4. Liviu Leontie, Ramona Danac, Mihaela Girtan, Aurelian Carlescu, **Alicia Petronela Rambu**, Gheorghe I. Rusu, „Electron transport properties of some new 4-tert-butylcalix[4]arene derivatives in thin films”, **Materials Chemistry and Physics**, 135, pp. 123-129, 2012.
5. S. Condurache-Bota, N. Tigau, **A.P. Rambu**, G.G. Rusu, G.I. Rusu „Optical and electrical properties of thermally oxidized bismuth thin films” **Applied Surface Science**, 257(24), pp. 10545–10550, 2011.
6. **A.P. Rambu**, D. Sirbu, N. Iftimie, G.I. Rusu „Polycrystalline ZnO–In<sub>2</sub>O<sub>3</sub> thin films as gas sensors” **Thin Solid Films**, 520, pp. 1303–1307, 2011.
7. G.G. Rusu, **A.P. Rambu**, V.E. Buta, M. Dobromir, D. Luca, M. Rusu „Structural and optical characterization of Al-doped ZnO films prepared by thermal oxidation of evaporated Zn/Al multilayered films” **Material Chemistry and Physics**, 123, pp. 314 – 321, 2010.
8. **A. P. Rambu**, D. Sirbu, G. I. Rusu „Influence of the oxidation conditions on the structural characteristics and optical properties of zinc oxide thin films” **Journal of Vacuum Science and Technology A**, 28, pp.1344–1348, 2010.

## 4. Research interests

Preparation and characterization of some semiconducting metal oxides, in thin films, for gas sensing applications. Fabrication of nonlinear optical materials, in thin films, for applications in nonlinear optics.