

# Emilian MORÎNTALE

## GENERAL INFORMATION

At present, Assistant drd. at  
The University of Craiova  
Faculty of Physics  
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## CURRICULUM VITAE

DATE AND PLACE OF BIRTH: **26 aprilie 1980, Melinești, Dolj**

### STUDIES:

- **Graduate:**

- a) during 1999-2003, University of Craiova, Faculty of Sciences, Physics section , Physics specialization

Diploma thesis title: Optimize a solar power based lighting and task

- b) during 1998-2004, University of Craiova, Faculty of Electrotechnics, specialization: “Genie Electrique”

- **Post graduate:**

during 2003-2004, University of Craiova, Faculty of Sciences, Physics section, Quantum Field Theory specialization

- **PhD:**

during 2006 – present, University of Craiova, Faculty of Physics, Experimental Physics

## ACADEMIC POSITIONS

- October 2004 - February 2007, Preparator at the Department of Physics 2, Faculty of Physics, University of Craiova
- February 2007- present, Assistant at the Department of Physics 2, Faculty of Physics, University of Craiova

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### **IN-CHARGE TECHING ACTIVITIES**

**Electricity and Magnetism**, laboratory and seminar, compulsory discipline, addressed to the students in the first year of studies from the Faculty of Physics, University of Craiova

**Physics**, laboratory and seminar, compulsory discipline, addressed to the students in the first year of studies from the Faculty of Chemistry, University of Craiova

**Technical Physics**, laboratory and seminar, compulsory discipline, addressed to the students in the first year of studies from the Faculty of Engineering in Electromechanics, Environment and Industrial Informatics, University of Craiova

### **RESEARCH ACTIVITIES**

**Main research domain:** Materials Physics

- **Teme de cercetare**
  - X-ray diffraction
  - Laser ablation
  - Thin films

### **SCIENTIFIC PUBLICATIONS**

#### **Papers published in CNCSIS indexed journals**

E. Morîntale, Measuring the characteristics of a solar cell, *Analele Universităţii din Craiova*, Vol 15 (Part II), 67-73, 2005

P. Rotaru, S.I. Blejoiu, M. Stanciu, E. Morintale, Morphology and structure of the Cu<sup>0</sup>/CuO-ZnO-Al<sub>2</sub>O<sub>3</sub> Composition and texture of the system, *Analele Universitatii din Craiova* , Vol. 15, (Part II), 123-128, (2005)

E. Morîntale, Electronic Device for plotting the caracteristics of a solar cell, *Analele Universităţii din Craiova*, Vol. 16 (Part I), 44-49, (2006)

E.Morîntale, D. Neacşa, C. Constantinescu, M. Dinescu, P. Rotaru, Thermal behaviour and spectral analysis of the organometallic complex Cu(II) 2,2' – dixydroxy azobenzene, *Physics AUC*, vol.20 (part1), 37-42 (2010)

E.Morîntale, C. Constantinescu, M. Dinescu, Thin films development by pulsed laser-assisted deposition, *Physics AUC*, vol.20 (part1), 43-56 (2010)

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C.Constantinescu, E. Morîntale, N. Scărişoreanu, A. Moldovan, M. Dinescu, Nanometric-sized Fe/Pt thin films with perpendicular anisotropy developed by layer-by-layer pulsed laser deposition, *Physics AUC*, vol.20 (part1), 73-82 (2010)

E.Morîntale, N. Scărişoreanu, M. Dinescu, P. Rotaru, Thermal stability of BST in a vast range of temperature, *Physics AUC*, vol.20 (part1), 83-89 (2010)

### **Papers published in ISI rated journals**

C. Constantinescu, E. Morîntale, Ana Emandi, Maria Dinescu, P. Rotaru, Thermal and microstructural analysis of Cu(II) 2,2'-dihydroxyazobenzene and thin films deposition by MAPLE technique, *J Therm Anal Calorim* DOI 10.1007/s10973-010-0971-x

N.D. Scarisoreanu, A.C. Galca, L. Nedelcu, A. Ioachim, M.I. Toacsan, E. Morintale, S.D. Stoica, M. Dinescu, Optical and structural studies on Ba(Mg<sub>1/3</sub>Ta<sub>2/3</sub>)O<sub>3</sub> thin films obtained by radiofrequency assisted pulsed plasma deposition, *Applied Surface Science* Volume 256, Issue 22, 1 September 2010, Pages 6526-6530

### **Papers published at international scientific meetings (conferences, schools, workshops, etc.)**

F.Craciun, M.Dinescu, N. D. Scarisoreanu, C.Capiani, C. Galassi, E Morintale, Impedance spectroscopy study of relaxor ferroelectric PLZT thin films obtained by PLD and RF-PLD, *IOP Conf. Ser.: Mater. Sci. Eng.* 8 012003,doi: 10.1088/1757-899X/8/1/012003

### **Papers presented of national conferences**

Conductibilitatea electrică a unui suport de alumină tratat termic

Author: Petre Rotaru, Adrian Roşca, Emilian Morîntale

The 10-th Conference, Căciulata, Romania 2004

The experimental study of a Ni-NiO/Al<sub>2</sub>O<sub>3</sub> system obtained by impregnation

Author: Petre Rotaru, Adrian Rosca, Ion Blejoiu, Andrei Rotaru, Emilian Morîntale

Progress of cryogenics and isotopes separation, 2005

### **Papers presented of international conferences**

C. Constantinescu, A. Rotaru, P. Rotaru, Ana Emandi, E. Morintale, V. Ion, A. Moldovan and Maria Dinescu, *Thermal analysis and thin film deposition by matrix assisted pulsed laser evaporation of Cu(II) 2,2'-dihydroxy azobenzene*, MEDICTA 2009, The 9<sup>th</sup> Mediterranean Conference on Calorimetry and Thermal Analysis, Marseille

C. Constantinescu, P. Rotaru, E. Morintale, V. Ion and Maria Dinescu, Polyacrylic acid: thermal stability and thin films deposition by matrix assisted pulsed laser evaporation (MAPLE), *Frontiers in Polymer Science*, International Symposium Celebrating the 50th Anniversary of the Journal polymer, 7-9 June 2009, Congress Centrum Mainz, Germany

## **Emilian MORÎNTALE**

### **Books and graduate textbooks**

E. Marinescu, E. Morîntale, *Electricity and Magnetism*, Reprography of the University of Craiova, 2005

### **Scientific research contracts**

1. **OPTOMATEH. Advanced technologies and materials for optoelectronics**  
<http://cis01.central.ucv.ro/proiectecercetare/optomateh/>, Program type: PNII-CAPACITATI, Contract number/year: 126/2007, Project manager: G. E. Iacobescu, Position: E. Morintale-member

2. **TEHNOPLAT OLTENIA. Interdisciplinary research-innovation platform for training and knowledge transfer**, Program type: Technological platform, Contract number/year: 39C/2006, CNCSIS code: 107/2006, Project manager: G. Manolea, Position: E. Morintale – member

3. **MODEL DESTINAT PROGNOZEI EVOLUTIEI ECONOMIEI REALE SI SISTEMULUI DE PIETE FINANCIARE DIN ROMANIA UTILIZAND ELEMENTE DIN TERMODINAMICA SISTEMELOR DESCHISE**

Contract number: 3C / 08.01.2009

Program type: IDEI 2008, Contract number: 952/19.01.2009

Position: E. Morintale – member

4. **THERMOGRAVIMETRIC STUDY OF SOME ORGANIC MATERIALS WITH APPLICATION IN AGRICULTURE**

Program type : CNCSIS Cod 57G/2007

Position: E. Morintale – member

5. **DEVELOPMENT OF NEW ORGANO-MINERAL FERTILIZERS AND IMPLEMENTATION OF INTEGRATED MANAGEMENT OF THEIR ADMINISTRATION IN ORDER TO PROTECT THE ENVIRONMENT, CONSERVATION AND SUSTAINABLE USE OF NATURAL RESOURCES**

Program type : MAKIS Cod142018/2009

Position: E. Morintale – member

### **SCIENTIFIC COLLABORATION**

INFLPR - National Institute for Laser, Plasma and Radiation Physics

### **MISCELLANEOUS**

Member of The Romanian Physical Society