

PERSONAL INFORMATIONS IFTIMIE SORINA

BIRTH DAY 04.05.1982

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EXPERIENCE

January, 2009 – Present, Research Assistant, Research Center for Electronic and Optoelectronic Materials and Devices (MDEO)

- basic research in the field of organic and inorganic photovoltaic cells
- transport properties of nanoscale devices
- nanostructures
- classes (thin films deposition methods, optical characterization methods)

EDUCATION

January 2013 – December 2013: Postdoctoral stage, LPHIA Laboratory, LUNAM - Angers University, France

September, 2008 – 2011: Ph.D, Condensed State Physics, Faculty of Physics, University of Bucharest, Bucharest, Romania. Thesis's name: Contribution to the study of photovoltaic cells based on thin films of organic and inorganic semiconductors

October, 2005 – February, 2006: Masteral Degree in Biophysics and Medical Physics, Faculty of Physics, University of Bucharest, Bucharest, Romania. Name of dissertation work: Minimize unwanted damage in laser ablation process

October, 2001 – July, 2005: Faculty of Physics, University of Bucharest, Bucharest, Romania, Specialization in Medical Physics. Name of diploma work: Applications of laser ablation in cardiology

Driving licence ▪ B, since 2006

Foreign Languages ➤ English (B2)
➤ French (B1)

Technica skills and competences ➤ Opical characterization
➤ Thin films deposition methods
➤ Nanomaterials and nanostructures

PUBLICATIONS

1. Effects of CNTs and metal-phthalocyanines adding on the photo-electrical behavior of the photovoltaic structures based on polymeric blends, Baschir L.; Antohe S.; Radu A.; Constantineanu R.; **Iftimie S.**; Simandan I.D.; Popescu M.; *Digest Journal of Nanomaterials and Biostructures* **8**, 1645 (2013)
2. Study of the optical and electrical properties of colloidal silver solutions, Burnete, E.; **Iftimie S.**; Antohe S.; Ciupina V.; *Optoelectronic and Advanced Materials – Rapid Communications* **7**, 411 (2013)
3. Optical analogues of chiral fermions in grapheme, Dragoman D.; Radu A.; **Iftimie S.**; *Journal of Optics* **15**, Article number **035710**, (2013)
4. Effect of protons irradiation on the performances of Cds/CdTe photovoltaic cells for space applications, Antohe, S.; **Iftimie, Sorina**; Ghenescu, Veta; et al., *Romanian Reports in Physics* **64**, 1153 (2012)
5. Effects of alpha particles irradiation on the photo-electrical properties of Cds/CdTe heterojunctions, Antohe, S.; Ghenescu, V.; **Iftimie, S.**; et al., *Digest Journal of Nanomaterials and Biostructures* **7**, 941 (2012)
6. Manipulating ballistic electrons by refraction at an interface between isotropic and anisotropic media, Radu, A.; **Iftimie, S.**; Dragoman, D.; *2012 International Semiconductor Conference (CAS) 1-2*, 113 (2012)
7. PLD deposited Al₂O₃ thin films for transparent electronics, Ion, M.; Berbecaru, C.; **Iftimie, S.**; et al., *Digest Journal of Nanomaterials and Biostructures* **7**, 1609 (2012)
8. Silver nanoparticles for different applications, Burnete, E.; **Iftimie, S.**; Antohe, S.; et al., *Optoelectronics and Advanced Materials-Rapid Communications* **6**, 1168 (2012)
9. Steering and collimating ballistic electrons with amphoteric refraction, Radu, A.; Dragoman, D.; **Iftimie, S.**, *Journal of Applied Physics* **112**, DOI: 10.1063/1.4739712 (2012)
10. UV-absorption mechanisms of Ni₂₊-binding bovine serum albumin, Dieaconu, M.; Ioanid, A.; **Iftimie, S.**; et al., *Digest Journal of Nanomaterials and Biostructures* **7**, 1125 (2012)
11. Influence of Al doping agents nature on the physical properties of Al:ZnO films deposited by spin-coating technique, Ghomrani, F-Z.; **Iftimie, S.**; Gabouze, N.; et al., *Optoelectronics and Advanced Materials-Rapid Communications* **5**, 247 (2011)
12. Influence of PEDOT:PSS layer on the performances of "bulk-heterojunction" photovoltaic cells based on MEH-PPV:PCBM(1:4) polymeric blends, **Iftimie, S.**; Radu, A.; Radu, M.; et al., *Digest Journal of Nanomaterials and Biostructures* **6**, 1631 (2011)
13. New investigations applied on cadmium sulfide thin films for photovoltaic applications, Toma, O.; **Iftimie, S.**; Besleaga, C.; et al., *Chalcogenide Letters* **8**, 747 (2011)
14. The influence of LiF layer and ZnO nanoparticles additions on the performances of flexible photovoltaic cells based on polymer blends, Radu, A.; **Iftimie, S.**; Ghenescu, V.; et al., *Digest Journal of Nanomaterials and*

Biostructures **6**, 1141 (2011)

15. Effects of proton irradiation on the spectral performance of photovoltaic cells based on Cds/Cdte thin films, Ion, L.; Enculescu, I.; **Iftimie, S.**; et al., *Chalcogenide Letters* **7**, 521 (2010)

16. Electrical and photoelectrical properties of organic photovoltaic cells based on polymer blends ITO/PEDOT/P3HT: PCBM (1:1), Magherusan, L.; Skraba, P.; Besleaga, C.; **Iftimie S.**; et al., *Journal of Optoelectronics and Advanced Materials* **12**, 212 (2010)

17. Study of electrical and optical properties of ITO/PEDOT/P3HT:PCBM(1:1)/LiF/Al photovoltaic structures, **Iftimie, S.**; Majkic, A.; Besleaga, C.; et al., *Journal of Optoelectronics and Advanced Materials* **12**, 2171 (2010)

18. Temperature dependent resistivity and Hall effect in proton irradiated CdS thin films, Ion, L.; Ghenescu, V.; **Iftimie, S.**; et al., *Optoelectronics and Advanced Materials-Rapid Communications* **4**, 1114 (2010)

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