## 1. Personal information

**Name**: Antonio M. Rădoi

**Date and place o birth**: 26 November 1977, Bucharest, Romania

**Current position**: Researcher, Molecular Nanotechnology Laboratory (L9), National Institute for Research and Development in Microtechnologies -IMT Bucharest

**Address:** Erou Iancu Nicolae street, 126 A, 077190, Voluntari, Ilfov, Romania

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## 2. Education

| | |
|---|---|
| 2007-2009 | Postdoc, BIOMEM (Bio-Analyse et Membranes), University of Perpignan - Via Domitia, Perpignan |
| 2003-2006 | PhD, Faculty of mathematical, physical and natural sciences, Department of sciences and chemical technologies, Tor Vergata University, Rome |
| 2001-2003 | Master, Faculty of chemistry, University of Bucharest |
| 1997-2001 | University, Faculty of chemistry, University of Bucharest |
| 1992-1996 | High school, 'Mircea cel Batran' high school, Râmnicu Vâlcea |

## 3. Professional experience

| No. | Institution | Duration | Po |
|---|---|---|---|
| **1** | IMT Bucharest | 15.06.2016- | Researcher (1st ) |
| **2** | IMT Bucharest | 15.02.2012-14.06.2016 | Researcher (2nd ) |
| **3** | IMT Bucharest | 01.03.2011-14.02.2012 | Researcher (3rd ) |
| **4** | IMT Bucharest | 01.03.2009-28.02.2011 | Chemist |
| **5** | University of Perpignan | 01.09.2007-28.02.2009 | Postdoc fellow/ATER |
| **6** | National Research and Development Institute of Occupational Safety | 01.01.2002-01.01.2007 | Assistant researcher |

**Fellowships** [selection]

- 01.04.2010 – 31.03.2013 - POSDRU/89/1.5/S/63700, National Institute for Research and Development in Microtechnologies - IMT Bucharest
- 01.09.2007 – 28.02.2009 - ATER, University of Perpignan - Via Domitia, Perpignan
- 01.06.2007 – 31.08. 2007 - EGIDE, University of Perpignan - Via Domitia, Perpignan
- 01.11.2003 – 31.10.2006 - NOVTECH NR. HPRN-CT-2002-00186, Department of science and chemical technologies, Tor Vergata University, Rome
- 01.11.2002 – 31.10.2003 - ROSEPROMILK QLK1-CT-2001-01617, Department of science and chemical technologies, Tor Vergata University, Rome

- 10.01.2002 –10.05.2002 - CNCSIS D 188, Department of science and chemical technologies, Tor Vergata University, Rome

**4. Selection of published papers**

1. Albu C, Eremia SAV*, Veca ML, Avram A, Popa RC, Pachiu C, Romanitan C, Kusko M, Gavrila R, **Radoi A***. Nano-crystalline graphite film on $SiO_2$ : Electrochemistry and electro-analytical application. *Electrochim Acta* 2019;303:284-92.
2. Mihalache I*, Purcarea A, Vasile E, Pachiu C, Eremia SAV, **Radoi A***, Kusko M. Tunable photoluminescence from interconnected graphene network with potential to enhance the efficiency of a hybrid si nanowire solar cell. *Phys Chem Chem Phys* 2019;21(18):9564-73.
3. Romanitan C, Varasteanu P, Mihalache I, Culita D, Somacescu S, Pascu R, Tanasa E, Eremia SAV, Boldeiu A, Simion M, **Radoi A***, Kusko M*. High-performance solid state supercapacitors assembling graphene interconnected networks in porous silicon electrode by electrochemical methods using 2,6-dihydroxynaphthalen. *Sci Rep* 2018;8(1).
4. Mihalache I*, **Radoi A**, Pascu R, Romanitan C, Vasile E, Kusko M*. Engineering graphene quantum dots for enhanced ultraviolet and visible light p-si nanowire-based photodetector. *ACS Appl Mater Interfaces* 2017;9(34):29234-47.
5. Vasilescu I, Eremia SAV*, Kusko M, **Radoi A***, Vasile E, Radu G-. Molybdenum disulphide and graphene quantum dots as electrode modifiers for laccase biosensor. *Biosens Bioelectron* 2016;75:232-7.
6. Mihalache I, **Radoi A***, Mihaila M, Munteanu C, Marin A, Danila M, Kusko M*, Kusko C. Charge and energy transfer interplay in hybrid sensitized solar cells mediated by graphene quantum dots. *Electrochim Acta* 2015;153:306-15.
7. Bragaru A, Vasile E, Obreja C, Kusko M, Danila M, **Radoi A***. Pt nanoparticles on graphene - polyelectrolyte nanocomposite: Investigation of $H_2O_2$ and methanol electrocatalysis. *Mater Chem Phys* 2014;146(3):538-44.
8. **Radoi A***, Obreja AC, Eremia SAV, Bragaru A, Dinescu A, Radu G-. L-lactic acid biosensor based on multi-layered graphene. *J Appl Electrochem* 2013;43(10):985-94.
9. Vig A, **Radoi A***, Muñoz-Berbel X, Gyemant G, Marty J-. Impedimetric aflatoxin M1 immunosensor based on colloidal gold and silver electrodeposition. *Sens Actuators, B Chem* 2009;138(1):214-20.
10. **Radoi A***, Targa M, Prieto-Simon B, Marty J-. Enzyme-linked immunosorbent assay (ELISA) based on superparamagnetic nanoparticles for aflatoxin M1 detection. *Talanta* 2008;77(1):138-43.
[* *corresponding author(s)]*

**5. Prizes**

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**6. Other**

1. Remote expert evaluator:
a). H2020-FETOPEN, Research Executive Agency (REA) – since 2017
b) Executive Unit for Financing Higher Education, Research, Development and Innovation (UEFISCDI) – since 2019
2. Reviewer: Sensors and Actuators B: Chemical; Talanta; Electrochimica Acta; Journal of Electroanalytical Chemistry; Chemical Communications; Food Control; RSC Advances; Analyst; IET Nanobiotechnology.