



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Adriana Elena Vulcu**  
Address(es) Cluj-Napoca, Romania  
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E-mail adriana.vulcu@itim-cj.ro; vulcu\_adriana@yahoo.com  
Nationality Romanian  
Birth date 28 April 1982  
Gender Female

### Work experience

Dates/  
Occupation or position held  
**June 2016 – present** - Scientific Researcher grade III  
**November 2009 – June 2016** – Scientific Researcher  
**December 2007 – November 2009** – Research Assistant

Main activities and responsibilities

- Synthesis of graphene and heteroatom doped graphene decorated with metallic nanoparticles;
- Development of new nanomaterials as anode (methanol oxidation reaction - MOR) or cathode (oxygen reduction reaction - ORR) in alkaline fuel cells – synthesis, characterization and electrochemical testing;
- Synthesis and characterization of hybrid nanomaterials based on metallic nanoparticles and organic compounds or graphene; application of nanomaterials in medicine and electrochemistry;
- Development and characterization of electrochemical (bio)sensors; detection of biological molecules by means of cyclic voltammetry, chronoamperometry, electrochemical impedance spectroscopy;
- Synthesis and biosynthesis of isotopically labelled compounds.

Name and address of employer

**National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat Str., 400293 Cluj-Napoca, Romania, www.itim-cj.ro**

Type of business or sector

Research, Development, Innovation

Dates/  
Occupation or position held

**August 2006 – December 2007** – Chemist responsible with environmental issues

Main activities and responsibilities

- ✓ Physico-chemical analysis of chicken food
- ✓ Preparation and submission of reports to the competent authority for environmental protection

Name and address of employer

SC Amareto Impex SRL, Florești, Cluj-Napoca

Type of business or sector

Food industry

### Education and training

Dates  
Title of qualification awarded

2008 - 2015  
Doctor in Chemistry

Name and type of organisation providing education and training	Faculty of Chemistry and Chemical Engineering – Department of Biochemical Engineering, Babes Bolyai University, Cluj-Napoca																																								
Level in national or international classification	ISCED 3 344																																								
<b>Dates</b>	2006 - 2007																																								
Title of qualification awarded	Master in Cellular Biotransformations																																								
Name and type of organisation providing education and training	Faculty of Biology and Geology, Babes Bolyai University, Cluj-Napoca																																								
Level in national or international classification	ISCED 6 646																																								
<b>Dates</b>	2001 - 2006																																								
Title of qualification awarded	Diplomat Engineer in Biochemistry																																								
Name and type of organisation providing education and training	Faculty of Chemistry and Chemical Engineering “Babes-Bolyai” University, Cluj-Napoca																																								
Level in national or international classification	ISCED 7 747																																								
<b>Personal skills and competences</b>																																									
Mother tongue(s)	<b>Romanian</b>																																								
Other language(s)																																									
Self-assessment <i>European level (*)</i>																																									
<b>English</b>																																									
<b>German</b>																																									
	<table border="1"> <thead> <tr> <th colspan="4">Understanding</th> <th colspan="4">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>C1</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> <td>C1</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> <td>C1</td> <td>Proficient user</td> </tr> <tr> <td>A1</td> <td>Basic user</td> <td>A1</td> <td>Basic user</td> <td>A1</td> <td>Basic user</td> <td>A1</td> <td>Basic user</td> <td>A1</td> <td>Basic user</td> </tr> </tbody> </table>	Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				C1	Proficient user	C2	Proficient user	C1	Proficient user	C2	Proficient user	C1	Proficient user	A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user
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	(*) <a href="#">Common European Framework of Reference for Languages</a>																																								
<b>Organisational skills and competences</b>	Organizational skills earned from being involved in the organizing committee of several scientific conferences																																								
<b>Computer skills and competences</b>	Microsoft Office (Word, Excell, Power Point), Origin, ChemDraw, Nova																																								
<b>Research areas</b>																																									
	<ul style="list-style-type: none"> <li>➤ Nanomaterials based on metallic nanoparticles;</li> <li>➤ Hybrid biomaterials;</li> <li>➤ Graphene,</li> <li>➤ Electrochemical (bio)sensors;</li> <li>➤ Fuel cell</li> </ul>																																								
<b>Publications</b>	<ul style="list-style-type: none"> <li>➤ 14 research articles published in ISI journals (7 as main author: first or corresponding); Publication list can be found here: <a href="https://orcid.org/0000-0001-9202-0575">https://orcid.org/0000-0001-9202-0575</a> and <a href="https://publons.com/researcher/2386884/adriana-e-vulcu/">https://publons.com/researcher/2386884/adriana-e-vulcu/</a></li> <li>➤ Citations 105</li> <li>➤ Hirsh Index 5</li> </ul>																																								
<b>Book Chapter</b>	1. Liliana Olenic, Maria Crisan, <b>Adriana Vulcu</b> , Camelia Berghian-Grosan, Diana Crisan,																																								

	Ioana Chiorean, <i>Chapter 18: Green Nanomaterials for Psoriatic Lesions in Nanomaterials and Regenerative Medicine</i> , Yufeng Lin, Tao Gong (Eds.), IAPC Publishing, Zagreb, Croatia, <b>2016</b> , 477-508
<b>Patents</b>	<ol style="list-style-type: none"> <li>1. Olenic Liliana, <b>Vulcu Adriana</b>, Grosan Ana Camelia si Dreve Simina, Hybrid materials based on gold nanoparticles and anthocyanins obtained from natural extracts of fruits from <i>Adoxaceae</i> and <i>Cornaceae</i>. Patent no. RO130210 B1</li> <li>2. Olenic Liliana, <b>Vulcu Adriana</b>, Berghian-Grosan Camelia, Dreve Simina, New materials based on silver nanoparticles and anthocyanins obtained from natural extracts for medical applications. Patent no. RO130666-A2</li> </ol>
<b>Additional information</b>	Expert Evaluator for the Call 'Marie Skłodowska-Curie Actions Innovative Training Networks' (H2020-MSCA-ITN-2019).

Cluj-Napoca,  
04.06.2019

Adriana-Elena Vulcu