



## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **Roxana-Diana PAȘCA**  
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Nationality Romanian  
Date of birth August 5, 1986  
Gender Female

### Work experience

Dates	<b>May 2021- present (part time);</b>	<b>December 2018-April 2021</b>
Occupation or position held	Scientific Researcher III;	Scientific Researcher
Main activities and responsibilities	Research activities	
Name and address of employer	National Institute for Research and Development of Isotopic and Molecular Technologies (INCDTIM)	
Type of business or sector	Research	
Dates	<b>February 2015- February 2018; February 2018-June 2018</b>	
Occupation or position held	Assistant Professor Full; Associate	
Main activities and responsibilities	Didactic and Research activities	
Name and address of employer	Babeș-Bolyai University (UBB), Mihail Kogălniceanu str., no.1, 400028, Cluj-Napoca, Romania	
Type of business or sector	Education	
Dates	<b>May 2014- September 2015</b>	
Occupation or position held	Postdoc	
Main activities and responsibilities	Research activities	
Name and address of employer	"Iuliu Hatieganu" University of Medicine and Pharmacy (UMF), Emil Isac str. no. 13, Cluj-Napoca	
Type of business or sector	Medical Research	
Dates	<b>October 2010- September 2013</b>	
Occupation or position held	PhD student	
Main activities and responsibilities	Research and Didactic activities	
Name and address of employer	Babeș-Bolyai University (UBB), Mihail Kogălniceanu str., no.1, 400028, Cluj-Napoca, Romania	
Type of business or sector	Education	
Dates	<b>October 2008- October 2010; November 2011-March 2015; November 2017-June 2018</b>	
Occupation or position held	Research Assistant	
Main activities and responsibilities	Research activities	
Name and address of employer	Babeș-Bolyai University (UBB), Cluj-Napoca, Romania	
Type of business or sector	Chemical research	

### Education and training

Dates **October 2017-Present**  
Title of qualification awarded PhD student in Physics  
Principal subjects/occupational skills Research activities  
Name and type of organisation providing education and training Babeș-Bolyai University, Cluj-Napoca, Romania

Dates **October 2010- September 2013**  
 Title of qualification awarded Doctor of Philosophy in Chemistry, Summa Cum Laude  
 Principal subjects/occupational skills Research and Didactic activities  
 Name and type of organisation Babeş-Bolyai University, Cluj-Napoca, Romania  
 providing education and training

Dates **October 2008- June 2010**  
 Title of qualification awarded Master in Chemistry  
 Principal subjects/occupational skills Advanced Chemistry  
 Name and type of organisation Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania  
 providing education and training

Dates **October 2005- June 2008**  
 Title of qualification awarded Bachelor of Science in Chemistry, valedictorian  
 Principal subjects/occupational skills Chemistry  
 Name and type of organisation Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania  
 providing education and training

Dates **September 2001- June 2005**  
 Title of qualification awarded BAC Diploma  
 Principal subjects/occupational skills Mathematics, Informatics, Physics, English  
 Name and type of organisation "Lucian Blaga" High-school, Cluj-Napoca, Romania  
 providing education and training

**Personal skills and competences**

Mother tongue(s) Romanian

Other language(s)  
 European level (\*)

**English**  
**French**  
**Spanish**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Advanced	C1	Advanced	C1	Advanced	C1	Advanced	C1	Advanced
B1	Intermediate	C1	Advanced	B1	Intermediate	A2	Beginner	A2	Beginner
C1	Advanced	B2	Intermediate	C1	Advanced	C1	Advanced	B1	Intermediate

(\*)Common European Framework of Reference for Languages

Social skills and competences Team work  
 Technical skills and competences Experience in operating Langmuir-Blodgett Technique (LBT), UV-VIS Spectrometer, Differential Scanning Calorimetry (DSC), AFM imaging, molecular beam epitaxy (MBE), nanolithography (NIL), spin-coating  
 Computer skills and competences Competent with Microsoft Office programs (Word, Excel, Power Point) and other specific programs: Origin, Matlab, quantum chemistry: HyperChem, Gaussian 9.0W, GaussView 5.0, molecular dynamics: VAMD/NAMD, GROMACS.  
 Driving licence For B category of vehicle

## ADDITIONAL INFORMATION

### • Scientific achievements:

**>15 scientific articles**

**>200 citations :**

**8 citations in journals with high impact factor (IF 6-16):**

**IF>16:**

1. Advanced Functional Materials (2019)

**IF> 10:**

2. Biomaterials (2017),

**IF> 8:**

3. ACS Applied Materials & Interfaces (2018)

**IF>7:**

4. Acta Biomaterialia (2019)

5. Journal of colloid and interface science (2019)

6. Journal of Controlled Release (2021)

**IF>6:**

7. Journal of Bone and Mineral Research (2016)

8. Materials & Design (2020)

**Hirsh Index 7 (Google Scholar).**

**>40 participations in scientific manifestations** (9 presentations abroad, 5 prizes)

**Selected presentations:**

1. Roxana-Diana Pașca, Titus-Adrian Beu, "Thermodynamic properties of linear and branched polyethylenimine", Quantum Thermodynamics conference: QTD2019, Aalto University, Helsinki-Espoo, Finland, 23-28 June 2019 (participant Roxana-Diana Pașca).

2. Atena Moldovan, Roxana-Diana Pașca, "Rhombic polyhedra of propellanic nature for thermodynamic studies", 7th Rostocker International Conference: "Thermophysical Properties for Technical Thermodynamics", Institute of Technical Thermodynamics, University of Rostock, Germany, 26-27 July, 2018 (poster presentation by Roxana-Diana Pașca).

3. Roxana-Diana Pașca, Atena Moldovan, Ossi Horovitz, Alexandru Lupan, "On the thermodynamic of triazines. A DFT and topological study", International Conference on Computational Materials Science and Thermodynamic Systems (CMST 2018), Wolfson College. University of Cambridge, United Kingdom, 22-23 March 2018, (oral presentation by Roxana-Diana Pașca).

4. Roxana-Diana Pașca, "The interaction of cholesterol-DMPC mixed monolayers and type I collagen. Langmuir-Blodgett technique and AFM approach", 2nd EBSA BIOPHYSICS COURSE ON: Membrane Biophysics and Lipid-Protein Interaction, Bordeaux-Lacanau, France, 24-29 June, 2012, (oral presentation).

**>7 participations in research programs** (member in research team)

**3 scholarships** (master, doctoral and post-doctoral level)

**Date**

**01 April 2022**