


## PERSONAL INFORMATION



## Roxana Marcela RACOVICANU (BABUTA)

 Square Eftimie Murgu, no. 2, Timisoara, Romania

Sex F |

| Nationality Romanian

## WORK EXPERIENCE

Mar 2025 - Present

## Associate Professor

Didactic and scientific research activities

Pharmaceutical Chemistry, Department II, Faculty of Pharmacy, Victor Babeş University of Medicine and Pharmacy Timişoara, Sq. Eftimie Murgu, no. 2, RO 300041, Timisoara, Romania

Business or sector Higher Education – Teaching and Research

Feb 2021 – Mar 2025

## Lecturer

Didactic and scientific research activities

Pharmaceutical Chemistry, Department II, Faculty of Pharmacy, Victor Babeş University of Medicine and Pharmacy Timişoara, Sq. Eftimie Murgu, no. 2, RO 300041, Timisoara, Romania

Business or sector Higher Education – Teaching and Research

Sep 2016 – Feb 2021

## Assistant Professor

Didactic and scientific research activities

Pharmaceutical Chemistry, Department II, Faculty of Pharmacy, Victor Babeş University of Medicine and Pharmacy Timişoara, Sq. Eftimie Murgu, no. 2, RO 300041, Timisoara, Romania

Business or sector Higher Education – Teaching and Research

Aug 2017 – Dec 2018

## Chemical researcher

Scientific research activities

Project - Advanced materials based on magnetic iron oxide nanoparticles obtained by combustion and their cytotoxicity used in cancer therapy - PN-III-P4-ID-PCE\_2016-0765

Faculty of Industrial Chemistry and Environmental Engineering, Politehnica University of Timisoara, Bvd. Vasile Pârvan, no. 6, RO 300226, Timişoara, Romania

Business or sector Higher Education - Research

Oct 2015 – Oct 2017

## Chemical researcher

Scientific research activities

Project - Intelligent nano-pigments with near-infrared reflection, obtained by combustion method, intended for thermoreflective (cold) coatings - PNII-RU-TE-2014-4-1587

Faculty of Industrial Chemistry and Environmental Engineering, Politehnica University of Timisoara, Bvd. Vasile Pârvan, no. 6, RO 300226, Timişoara, Romania

Business or sector Higher Education - Research

May 2014 – Dec 2015

## Postdoctoral Researcher

Scientific research activities

Project - Synthesis and characterization of materials with tailored properties, intended for adsorption processes of pollutants from wastewater - "ATTRACTING" POSDRU/159/1.5/S/137070

Faculty of Industrial Chemistry and Environmental Engineering, Politehnica University of Timisoara, Bvd. Vasile Pârvan, no. 6, RO 300226, Timişoara, Romania

Business or sector Higher Education - Research

Nov 2011 – Oct 2014

## Research assistant in chemistry

Scientific research activities

Project - Innovative solutions in the field of large surface area ceramic nanopowder preparation via combustion synthesis - 3-0024 -PN-II-RU-TE-2011

Faculty of Industrial Chemistry and Environmental Engineering, Politehnica University of Timisoara, Bvd. Vasile Pârvan, no. 6, RO 300226, Timişoara, Romania

Jul 2008 – Aug 2008

Business or sector Higher Education - Research

### Trainee – Internship program

Duravit AG, Werderstraße 36, D-78132 Hornberg, Germany

- Project - Experiments concerning the control of vitreous china shrinkage by means of the non-plastic composition.

Business or sector Industry – Ceramics research.

## EDUCATION AND TRAINING

Sep 2016 – Jul 2018

### Master's Degree – Program OTC drugs, food supplements and cosmetics

ISCED 7

Victor Babeş University of Medicine and Pharmacy Timișoara, Faculty of Pharmacy, Sq. Eftimie Murgu, no. 2, RO 300041, Timisoara, Romania

- Dissertation – Evaluation of root extracts from *Armoracia Rusticana*

2015/ 2017

### Psycho-pedagogical module Level I / II

ISCED 6

Politehnica University of Timisoara / West University of Timisoara

- Improvement of pedagogical skills

Oct 2009 – Mar 2013

### PhD in Chemistry – Material Engineering

ISCED 8

Politehnica University of Timișoara, Faculty of Industrial Chemistry and Environmental Engineering, Bvd. Vasile Pârvan, nr. 6, RO 300226, Timișoara, România.

- Thesis - Obtaining oxide compounds through polymeric precursor method
- Scholarship within project ID 50783

Oct 2004 – Jun 2009

### Chemical Engineer - Science and Engineering of Oxide Materials

ISCED 6

Politehnica University of Timișoara, Faculty of Industrial Chemistry and Environmental Engineering, Bvd. Vasile Pârvan, nr. 6, RO 300226, Timișoara, România.

- Diploma project - Obtaining some solid solution of  $\text{Ca}_2(\text{Fe}_{1-x}\text{Al}_x)_2\text{O}_5$  by combustion and ceramic method

## PERSONAL SKILLS

Mother tongue Romanian.

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	B2	C1	B2	B2
French	A2	A2	A2	A2	A2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Communication skills

A good communication ability and team spirit acquired during the participation in the development of scientific research projects.  
Ability to report succinctly and clearly the results, obtained after participating in national and international conferences.

Job-related skills

The utilization of equipment and interpreting characterization results: XRD; UV-VIS; FTIR; DTA/DTG/DSC; DLS; TEM; SEM; VSM

**Computer skills**

- OriginPro8 program for graphical processing of experimental data;
- good command of Microsoft Office™ tools;
- Biovia Draw 2019 program.

**Driving licence**

Driving licence category

- B

## ADDITIONAL INFORMATION

### Publications Conferences

1. Articles published as author / co-author:
  - 49 articles in extenso in ISI-rated journals with impact factor;
  - 2 articles in extenso in ISI listed journals without impact factor;
  - 3 articles in BDI indexed journals;
  - 2 chapters published by prestigious publishing houses;
  - 2 patent proposal.
2. Co-author of the book - Pharmaceutical Chemistry - Laboratory works, ed. II revised, Ed. Victor Babeş, Timișoara, 2020, ISBN 978-606-786-194-5, 227 p.
3. Papers presented at national / international conferences.
  - author / co-author > 50

### Research Scholarship

*Postdoctoral researcher* - **"Increasing the attractiveness and performance of doctoral and postdoctoral training programs for researchers in engineering sciences - ATTRACTING"**  
POSDRU / 159 / 1.5 / S / 137070

*Doctoral researcher* - Strategic project ID 50783 **"Through doctoral scholarships for European level research"** Contract POSDRU / 88 / 1.5 / S / 50783

### Memberships in national research project

Research project no. 3-0024, PN-II-RU-TE-2011, funded by UEFISCDI;  
Research project no. 142 / 01.10.2015, PNII-RU-TE-2014-4-1587, financed by UEFISCDI;  
Research project no. 169 / 01.08.2017, PN-III-P4-ID-PCE\_2016-0765, funded by UEFISCDI;  
UMFVBT internal grant, III-C5-PCFI-2017 / 2018-04, ROINEXTRAMAM;  
UMFVBT internal grant, 1EXP / 1233 / 30.01.2020, LUPSKINPATH.

### Recognition of professional / scientific prestige

- Bologna Teacher Award, 2017
- 42 coordinated diploma projects
- 29 awarded articles - through the PRECISI program, national level - UEFISCDI.
- Hirsch Index
  - h = 16 according to Web of Science / 08.04.2025
  - h = 18 according to Google Scholar / 08.04.2025
  - h = 17 according to Scopus / 08.04.2025
- Member in the editorial board
  - 03.2021 – present - Topic Editor – Journal Materials (Q2, FI=3.623) - Advanced Nanomaterials and Nanotechnology Section
  - 03.2021 – present - Topic Editor – Journal Pharmaceutics (Q1, FI=6.321);
  - Guest Editor for the Special Issue "Magnetic Nanomaterials – a Promising Approach in Cancer Therapy" - section Nanomedicine and Nanotechnology.
- Peer Reviewer
  - 82 verified reviews

Timișoara  
08.04.2025

Racovicianu Roxana-Marcela