




PERSONAL INFORMATION



Daiana-Alexandra Albulescu

 Timisoara (Romania)
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Sex Female | Date of birth 26/04/1995 | Nationality Romanian

POSITION

Scientific Assistant Researcher

WORK EXPERIENCE

06/2017–07/2017

Student Practice

Stada Hemofarm, Timișoara (Romania)

I had the opportunity to see how this company can work, to help analysts in their daily activities and to learn new and useful things in my professional development. It was also presented to myself the performance equipment of each laboratory and I had the agreement to use certain devices.

01/01/2019–Present

Assistant Scientific Researcher

The National Institute of Research and Development for Electrochemistry and Condensed Matter, Timisoara (Romania)

- I have obtained by now natural extracts from red cabbage, eggplant peel, black rice, green walnut shell and turmeric root for solar cells
- I performed the characterization of the samples by UV-Vis and the interpretation of the respective samples
- Use software to interpret the results of the analyzes
- DSSC solar cell testing
- Deposition of thin films of TiO₂
- Calibration and testing of pH meters

EDUCATION AND TRAINING

2010–2014

High school diploma

National College "Coriolan Brediceanu", Lugoj (Romania)

Profile studies : Natural Sciences/Biochemistry
General skills : chemistry

2014–2018

Chemical Engineer Diploma

Polytechnic University, Timisoara, "Faculty of Industrial Chemistry and Environmental Engineering", Timisoara (Romania)

Domain: Chemical Engineering

Specialization: Chemistry and Organic Substances Engineering, Petrochemistry and Carbochimia

General skills :

- Analysis and Control - Spectroscopic and Chromatographic Methods
- General chemistry, inorganic chemistry, analytical chemistry, instrumental analytical chemistry
- Chimia of natural compounds
- Organic chemistry, reactions of organic compounds, intermediates in organic synthesis, reaction mechanisms
- Fundamental processes in organic synthesis, organic chemical technology
- Graphically assisted computer

2018–Present **Student MA**

Polytechnic University, Timisoara, "Faculty of Industrial Chemistry and Environmental Engineering", Timisoara (Romania)

Specialization : Fine Organic Synthesis Products, Semi-Synthesis and Natural

PERSONAL SKILLS

Mother tongue(s) Romanian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B1	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

Projects and activities to be mentioned as a volunteer in the non-governmental organization of Timișoara Chemistry Students (LSCT)

- "Concursul Național Coriolan Drăgulescu"
- "Environmental Protection and Ecological Education" (EPEE)
- "Lanțul uman" - moving the last 100 books from the old library to the new library of Polytechnics
- "Politehnica un pas spre viitorul tău"

Organisational / managerial skills

Obtaining course ISO 9001 Management System Auditor Certificate (TUV Karpát / TUV Thüringen)

Job-related skills

- attention to details
- dexterous
- patient
- calm
- self-motivation
- adaptability
- creativity
- teamwork
- responsibility

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Independent user	Proficient user	Independent user	Independent user	Independent user

Digital skills - Self-assessment grid

- MS Office (Word, PowerPoint, Excel)
- Catia
- ChemDraw, ChemSketch
- Aspen Hysys
- Matlab

Driving licence AM, B1, B

ADDITIONAL INFORMATION

Conferences

- 1) "Facile esterification of aromatic amino acids at room temperature"
Authors : Francisc Peter, Valentin Badea, Horațiu Moldovan, Daiana Albulescu
- 2) TIM 19 Physics Conference "from Timisoara, Romania, from May 29 to 31, 2019. Poster presentation.
"Preliminary studies on the synthesis of red cabbage dye for green dye-sensitized solar cells"
Authors: Daiana Albulescu, Sabina Nitu, Melinda Vajda, Daniel Ursu, Cristian Casut, Anamaria Dabici, Narcis Duteanu, Marinela Miclau
- 3) New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection, from Timisoara, Romania, on 06.07.2019 Poster presentation
"Photovoltaic performance of p-type dye-sensitized solar cells based on Cu₂O particles with different morphologies"
Authors: Daniel Ursu, Anamaria Dabici, Melinda Vajda, Cristian Casut, Daiana Albulescu, Narcis Duteanu, Marinela Miclau
- 4) 25 th International Symposium on Analytical and Environmental Problems, Szeged, Hungary, 7-8 October 2019. Poster presentation
"Hydrothermal synthesis of the mixed-phases based on mn for lithium ion battery application"
Authors: Dabici Anamaria, Ursu Daniel, Vajda Melinda, Miclau Marinela, Casut Cristian, Albulescu Daiana