



Iulia Băbuțan

ABOUT ME

I am passionate about exact sciences (chemistry, biology, physics) with three years of experience in scientific research as a PhD student at the Faculty of Physics, Babes-Bolyai University in Cluj-Napoca, Romania. I like reading, music and sports (especially figure skating).

LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	C1	C1	C1	C1	C1
SPANISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

1. Iulia Babutan, Alexandra-Delia Lucaci, Ioan Botiz. Antimicrobial Polymeric Structures Assembled on Surfaces. *Polymers* 13(10), 1552 (2021). AIS: 0.657; IF: 4.700

2. Iulia Babutan, Otto Todor-Boer, Leonard Ionut Atanase, Adriana Vulpoi, Simion Simon, Ioan Botiz. Self-assembly of block copolymers on surfaces exposed to space-confined solvent vapor annealing. *Polymer* 273, 125881 (2023). AIS: 0.612; IF: 4.1

3. Iulia Babutan, Otto Todor-Boer, Leonard Ionut Atanase, Adriana Vulpoi, Ioan Botiz. Self-Assembly of Block Copolymers in Thin Films Swollen-Rich in Solvent Vapors. *Polymers* 15(8), 1900 (2023). AIS: 0.657; IF: 4.700

4. Iulia Babutan, Otto Todor-Boer, Leonard Ionut Atanase, Adriana Vulpoi, Ioan Botiz. Crystallization of Poly(ethylene oxide)-Based Triblock Copolymers in Films Swollen-Rich in Solvent Vapors. *Coatings* 13(5), 918 (2023). AIS: 0.419; IF: 2.900

5. Iulia Babutan, Leonard Ionut Atanase, Ioan Botiz, Self-assembly of lamellar/micellar block copolymers induced through their rich exposure to various solvent vapors: an AFM study. *Materials* 18(8), 1759 (2025). AIS: 0.509; IF: 3.100

● CONFERENCES AND SEMINARS

01/03/2021 – 03/03/2021 Iași, România

1. Iulia Babutan, Raluca Tarcan, Lucian-Cristian Pop, Ioan Botiz. Poster entitled “Manipulation of the optoelectronic properties of conjugated polymers in thin films by adding reduced graphene oxide” and presented at International Congress of the Apollonia University of Iasi, the XXXI edition, hosted by the Apollonia University of Iasi (Romania) on 1st – 3rd March 2021.

19/04/2021 – 21/04/2021 Poland

2. Iulia Babutan, Raluca Tarcan, Lucian-Cristian Pop, Ioan Botiz. Oral presentation entitled “Manipulation of optoelectronic properties of conjugated polymers by adding reduced graphene oxide or silver nanoparticles” and presented at 9th European Young Engineers Conference in Poland on 19th – 21st of April 2021.

21/04/2021 – 24/04/2021 Cluj-Napoca, România

3. Iulia Babutan, Raluca Tarcan, Lucian-Cristian Pop, Ioan Botiz. Poster entitled “Tuning of the optoelectronic properties of conjugated polymers by the addition of reduced graphene oxide or silver nanoparticles” and presented at International Conference “Students for Students” XVIIth Edition, hosted by the Faculty of Chemistry and Chemical Engineering at Babes-Bolyai University of Cluj-Napoca (Romania) on 21st – 24th of April 2021.

28/02/2022 – 02/03/2022 Iași, România

4. Iulia Babutan, Otto Todor-Boer, Leonard Ionut Atanase, Ioan Botiz. Poster entitled “Fabrication of structured surfaces from antimicrobial copolymers” and presented at International Congress of the Apollonia University of Iasi, the XXXIInd edition, hosted by the Apollonia University of Iasi (Romania) on 28th of February – 2nd of March 2022.

25/07/2022 – 29/07/2022 Herceg Novi, Montenegro

5. Iulia Babutan, Otto Todor-Boer, Leonard Ionut Atanase, Adriana Vulpoi, Simion Simon, Ioan Botiz. Poster entitled “Self-assembly and crystallization of block copolymers on surfaces exposed to a well-controlled solvent vapor environment and observed by AFM” and presented at virtual offline participation at Jubilee International Conference on Radiation in Various Fields of Research 10th edition (Jubilee RAD 2022 Conference Summer Edition) in Herceg Novi (Montenegro) on 25th – 29th of July 2022.

02/03/2023 – 05/03/2023 Iasi, Romania

6. Iulia Babutan, Otto Todor-Boer, Leonard Ionut Atanase, Adriana Vulpoi, Simion Simon, Ioan Botiz. Poster entitled “Self-assembly of block copolymers on surfaces exposed to space-confined solvent vapor annealing” and presented at International Congress of the Apollonia University of Iasi, the XXXIIIth edition, hosted by the Apollonia University of Iasi (Romania) on 2nd – 5th of March 2023.

● EDUCATION AND TRAINING

01/10/2020 – 19/09/2025 Cluj-Napoca, Romania

PHD IN PHYSICS Faculty of Physics, Babes-Bolyai University

Website <https://phys.ubbcluj.ro/>

01/10/2021 – 01/07/2024 Cluj-Napoca, Romania

BACHELOR'S DEGREE IN BIOLOGY Faculty of Biology and Geology, Babes-Bolyai University

Website <https://biogeo.ubbcluj.ro/>

01/10/2019 – 01/07/2021 Cluj-Napoca, Romania

MASTER'S DEGREE IN FORENSIC CHEMISTRY Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University

Website <https://chem.ubbcluj.ro/>

01/10/2018 – 01/07/2020 Cluj-Napoca, Romania

MASTER'S DEGREE IN CLINICAL CHEMISTRY Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University

Website <https://chem.ubbcluj.ro/>

01/10/2015 – 01/07/2018 Cluj-Napoca, Romania

BACHELOR'S DEGREE IN CHEMISTRY Faculty of Chemistry and Chemical Engineering, Babes- Bolyai University

Website <https://chem.ubbcluj.ro/>

● **VOLUNTEERING**

18/09/2018 – 30/06/2019 Clinical Hospital for Infectious Diseases, Cluj-Napoca, România

Chemist, Medical Analysis Laboratory - Biochemistry

Link <https://infectioasecluj.ro/>

17/11/2016 – 30/06/2018 Research Institute for Analytical Instrumentation (ICIA), Cluj-Napoca, România

Chemist, Environmental Analysis Laboratory

Link <https://icia.ro/en/>

● **DIGITAL SKILLS**

Microsoft Office (Word, Excel, PowerPoint, Access, Outlook), ChemDraw, SpartanPro, Statistica, ViewerLite, MestReNova, OriginPro software for data analysis
