

## PERSONAL INFORMATION

## KAPRONCZAI Erzsébet-Eleonóra



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Scopus Author ID 57189993109 | UEFISCDI ID (UEF-ID) U-1700-037P-9245

## WORK EXPERIENCE

- 03.10.2022 – present **Assistant professor Dr. - Faculty of Chemistry and Chemical Engineering**  
Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca, 400084, Romania  
<http://www.chem.ubbcluj.ro/~chimie/didactic.html>
- 25.10.2021 – 30.09.2022 **Chemist – Faculty of Chemistry and Chemical Engineering**  
Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca, 400084, Romania
- 04.10.2021 – 01.07.2022 **Associate teacher – Faculty of Chemistry and Chemical Engineering**  
Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca, 400084, Romania  
Teaching laboratories: *Technology of basic inorganic products, Technology of inorganic pigments, Inorganic chemistry*
- 15.03.2021 - present **Scientific Research Assistant within the project PN-III-PCE-2020-1028**  
Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca, 400084, Romania  
<http://www.chem.ubbcluj.ro/~ccsoom/organometallic/pce1028.html>  
The title of the project: *Tailoring Organochalcogen (Se, Te) Based Compounds with Potential as Antitumor Agents*
- 01.11.2020 - 30.09.2022 **Scientific Research Assistant within the project PN III P1-1.1-TE-2019-1342**  
Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca, 400084, Romania  
<http://www.chem.ubbcluj.ro/~ccsoom/organometallic/te1342.html>  
The title of the project: *Development of efficient luminescent compounds based on imidazolone and chalcogen-related scaffolds with potential biological activity*
- 28.09.2020 - 31.07.2021 **Civil service contract – Faculty of Chemistry and Chemical Engineering**  
Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca, 400084, Romania
- 28.09.2020 – 21.02.2021 **Associate teacher – Faculty of Chemistry and Chemical Engineering**  
Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca, 400084, Romania  
Teaching laboratories: *Technology of basic inorganic products, Technology of inorganic pigments, General chemistry*
- 30.09.2019 – 10.03.2020 **Associate teacher – Faculty of Chemistry and Chemical Engineering**  
Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca, 400084, Romania  
Teaching laboratories: *Technology of basic inorganic products, Inorganic chemistry*
- 01.09.2018 - 30.06.2022 **Scientific Research Assistant within the project PN-III-P4-ID-PCCF-2016-0088 (P2)**  
Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca, 400084, Romania  
<http://www.chem.ubbcluj.ro/~ccsoom/organometallic/pccf088.html>  
The title of the project: *Functionalized hierarchical structures on graphene exhibiting magnetic, adsorption and catalytic properties*
- 01.01.2017 - 30.09.2017 **Scientific Research Assistant within the project PN II PT PCCA 2013-4-1226**  
Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca, 400084, Romania  
<http://www.chem.ubbcluj.ro/~ccsoom/organometallic/pcca1226.html>  
The title of the project: *The improvement of the manufacturing technology of lead-acid batteries to be used for start-and-stop automobiles*
- 01.03.2015 - 31.12.2016 **Technician within the project PN II ID PCE 3-0659/2011**  
Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca, 400084, Romania  
<http://www.chem.ubbcluj.ro/~ccsoom/organometallic/id659.html>  
The title of the project: *New metal complexes with metal-chalcogen bonds - potential precursors for electronic materials*

## EDUCATION AND TRAINING

- 01.10.2016 – 09.12.2021 **PhD in Chemistry**  
 Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania  
 Domain: Chemistry  
 PhD Thesis Title: *Solution behaviour and solid state structure of new main group (Sn, Pb, Te) compounds with organophosphorus ligands*
- 25.02.2019 – 27.05.2019 **Erasmus+ Traineeship**  
 University of Debrecen, Faculty Science and Technology, Debrecen, Hungary  
 Traineeship title: *Structural characterization of new organometallic and organochalcogen compounds by NMR spectroscopy*
- 29.09.2014 – 03.07.2016 **Master in Chemical Engineering**  
 Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania  
 Domain: Chemical Engineering  
 Specialization: Materials Engineering and Environmental Protection  
 Master Thesis Title: *Organotellurium(IV) compounds – potential precursors for production of Sb<sub>2</sub>Te<sub>3</sub>*
- 27.09.2010 – 06.07.2014 **Bachelor in Chemical Engineering**  
 Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania  
 Domain: Chemical Engineering  
 Specialization: Engineering of Inorganic Substances and Environmental Protection  
 BSc Thesis Title: *Technology for Ph<sub>3</sub>TeCl production*
- 15.09.2006 – 15.06.2010 **Baccalaureate diploma**  
 "Simion Bărnuțiu" National College, Șimleul Silvaniei, Romania  
 Domain: Real  
 Specialization: Mathematics – informatics

## PERSONAL SKILLS

Mother tongue(s) Hungarian, Romanian

Other language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	B2	B2	B2

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

- Communication skills Good communication skills acquired during the guidance of students in research laboratory (2014 – present) and during my experience of teaching laboratories for undergraduate students in the field of inorganic chemistry (2016 – present).
- Organisational / managerial skills Organizing spirit acquired by supervising students in research laboratory and as a student representative of my master specialization. Good team working and managerial skills gained as a member of Supramolecular Organic and Organometallic Chemistry Centre (2012 – present).
- Technical skills and competences Experience in operating Bruker 300, 400 and 600 MHz NMR spectrometers.  
 Experience in operating LTQ Orbitrap-XL mass spectrometer.  
 Good skills in synthesis of organochalcogen (S, Se, Te) compounds, under inert atmosphere, using specific techniques.  
 Spectral analysis – structural investigations of precursors and new compounds using multinuclear NMR and mass spectrometry.
- Computer skills Good command of Microsoft Office™ tools: Word, PowerPoint, Excel, Teams.  
 Using of graphics processing programs and specialized software: ChemBioDraw, MestreNova, TopSpin, Diamond, Xcalibur, Matlab, etc.  
 General knowledge of computer graphics applications: SolidEdge, ChemCad, Origin.  
 Using databases: Reaxys, SciFinder, Cambridge Structural Database.

## ADDITIONAL INFORMATION

- Publications [Scopus Author ID: 57189993109; https://orcid.org/0000-0002-4912-0586](https://orcid.org/0000-0002-4912-0586)
- Scholarships World Federation of Scientists Scholarship (01.04.2015 – 31.03.2016). Title of the project: *New diorganochalcogen compounds. Coordination ability and biological activity.*
- Memberships Member of Romanian Chemical Society since 2012.