

Adrian-Alexandru Someșan

Lect. Dr. Eng.– Babeș-Bolyai University, Cluj-Napoca, Romania

Born 28.12.1989 in Bistrița, Romania

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Professional experience

Employing unit: Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering, 11 Arany Janos street, 400028, Cluj-Napoca, Romania,

Feb. 2022 – present **Lecturer**

Course: Industrial pollutants, solid-state chemistry and engineering

Laboratory: general chemistry, main inorganic products technology, coordinative and organometallic chemistry.

Seminar: general chemistry, main inorganic products technology, industrial pollutants, solid-state chemistry and engineering, environment protection in chemical industry.

2018 – Feb. 2022 **Assistant Professor**

Laboratory: general chemistry, non-metal chemistry, main inorganic products technology, coordinative and organometallic chemistry.

Seminar: general chemistry, main inorganic products technology, industrial pollutants, solid-state chemistry and engineering, environment protection in chemical industry.

Mar. 2021 – present **Scientific researcher**

Research in organometallic and coordination chemistry of the elements in group 14 and 15.

Mar. 2017 – 2019 **Research Assistant**

Oct. 2016 – 2017 **Associate assistant**

Education

Oct. 2015 – Oct. 2019

Doctor of Chemistry, Babeș-Bolyai University
Faculty of Chemistry and Chemical Engineering
Supervisor: Prof. Dr. Cristian SILVESTRU

Subject: „*Progress in organometallic chemistry of tin(IV) and lead (II)*”

Oct. 2013 – Jul. 2015

MSc in Advanced Chemistry, at Babeș-Bolyai University
Faculty of Chemistry and Chemical Engineering

Oct. 2009 – Jul. 2013

BSc in Chemical Engineering, at Babeș-Bolyai University,
Faculty of Chemistry and Chemical Engineering

Occupation and research interests

Teaching and scientific research in coordination and organometallic chemistry of main-group metals (Sn, Pb, Sb, Bi).

Research projects

Sept. 2020 – Aug. 2022

Project manager, post-doctoral grant financed by UEFISCDI, PN-III-P1-1.1-PD-2019-0976 – 50.000 EUR

Subject: *Novel organometallic alkoxides of low-valent heavy group 14 elements (Sn, Pb) and their potential use in catalysis and materials science*

May 2020 – May 2021 **Project manager**, Young Researchers grant, GTC-31835, financed by Babeș-Bolyai University, Cluj-Napoca 10.000 EUR

Subject: *Synthesis and characterization of novel organotin(IV) carboxylates. A study of their coordination properties and biological activity.*

Research stays and training

- 6 months (November 2018-Mai 2019) in Rennes, at the Institut des Sciences Chimiques de Rennes UMR CNRS 6226, France – Supervisor Dr. Yann Sarazin
Funding: Rennes Métropole scholarship and PN-III-P4-ID-PCCF-2016-0088
- 4 months (April-July 2017) in Rennes, at the Institut des Sciences Chimiques de Rennes UMR CNRS 6226, France – Supervisor Dr. Yann Sarazin
Funding: Erasmus+ grant + BBU scholarship
- X-Ray Crystallography School, Izmir, Turkey, 1-5 September, 2014

Organizational / managerial skills

- Managerial experience accumulated in 2 research projects with national funding.
- Team member of research projects with national funding: TE0033 / 2011, PCCE0050-P3 / 2011, TE0906 / 2015, PCCF0088-P2 / 2018, PCE2651 / 2021.
- Coordination of research activity of the students, master students and PhD students

Technical skills and competences

- Expertise in the synthesis and characterisation of organometallic and coordination compounds, including Schlenk techniques
- Qualification in operating Bruker 300, 400, 500 and 600 MHz NMR spectrometers
- Member of the Romanian Chemical Society
- Member of Supramolecular Organic and Organometallic Chemistry Centre - SOOMCC
- Good command of chemistry data processing and analysis software (ChemDraw, MNova, Diamond, XCalibur) and Office Suite (Word processor, spread sheet, presentation software)
- Leadership and “know-how” teaching experience gained through the daily working with young BSc., Master and PhD students
- Driving license: B

Languages

Mother tongue: Romanian

Other languages: English (C1), German (A1), French (A1).

Awards

- Nov. 2014 – Sept. 2015 - Excellence Scholarship from Babeș-Bolyai University, Romania
- 2021 - “Gheorghe Spacu” Award from The Romanian Academy
- 2023 - Bourses du Gouvernement Français 2023 France Excellence (1 month)
- 2023 - Special Mention "Rada Mihalcea for Young Researchers in Science and Engineering" 9th Edition, Cluj-Napoca City Hall.

Publications

For a detailed list of publications see ORCID: [0000-0002-8335-4298](https://orcid.org/0000-0002-8335-4298).

04.11.2023

Lect. Dr. Adrian-Alexandru Someșan

