

## Adrian-Alexandru Someșan

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

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

Seminary: 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.

Seminary: 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 – present **Research Assistant** at Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania.

oct. 2016 – 2017 **Associate assistant** at Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania,

## Education

Oct. 2015 – Oct. 2019 Doctor of Chemistry, Babeș-Bolyai University  
Faculty of Chemistry and Chemical Engineering  
Organometallic Chemistry, Centre of Supramolecular, Organic and Organometallic Chemistry, Cluj-Napoca, Romania  
Supervisor: Prof. Dr. Cristian SILVESTRU

Oct. 2013 – Jul. 2015 MSc in Advanced Chemistry, at Babeș-Bolyai University  
Faculty of Chemistry and Chemical Engineering

Oct. 2009 – Jul. 2013 Chemical Engineering, at Babeș-Bolyai University,  
Faculty of Chemistry and Chemical Engineering

## Research Interests

Coordination and organometallic chemistry of group 14 elements [Sn(IV) and Pb(II)]

## Research project

- Sept. 2020 – present **Project manager**, post-doctoral grant financed by UEFISCDI, PN-III-P1-1.1-PD-2019-0976 – 246.950 RON
- Mai 2020 – Mai 2021 **Project manager**, Young Researchers grant, GTC-31835, financed by Babeș-Bolyai University, Cluj-Napoca – 50.000 RON
- Mar. 2021 – present **Scientific researcher**, Exploratory Research Project, PN-III-P4-ID-PCE-2020-2651, financed by UEFISCDI.
- Aug. 2018 – present **Assistant scientific researcher**, Frontier research project, PN-III-P4-ID-PCCF-2016-0088, financed by UEFISCDI.
- Mar. – Sept. 2017 **Assistant scientific researcher**, Young Teams Project, 2014, PN-II-RU-TE-2014-4-0906, financed de UEFISCDI.
- 2014 – 2016 **Technician**, Exploratory Research Project, PCCE: PN-II- ID-PCCE-2011-2-0050/2011, financed by UEFISCDI.
- 2011 – 2014 **Technician**, Young Teams Project, 2011, PN-II-RU-TE-2011-3-0033.

## 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
- Attendance to X-Ray Crystallography School, Izmir, Turkey, 1-5 September, 2014

## Technical skills and competences

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

## Conferences

- Novel Homo- and Heteroleptic Pb(II) Species, GeCom CONCOORD, 19-24 May 2019, Erqui, France - poster
- Multinuclear NMR –a useful tool in analysis of organotin(IV) compounds, Central and Eastern European NMR Symposium & Central and East European Bruker Users Meeting, September, 18<sup>th</sup> – 20<sup>th</sup>, 2016, Sofia, Bulgaria. – poster
- New Heteroleptic Tetra(aryl)tin(IV) Compounds - Intra- and Intermolecular Interactions Study, Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE I) May 12<sup>th</sup> – 14<sup>th</sup>, 2016, Cluj-Napoca, Romania. – oral presentation
- New Mono(imino)aryl tin(IV) Compounds as Potential Ligands for Transition Metals, International Conference “Students for Students 2015” Cluj-Napoca, Romania. – oral presentation

- Organotin(IV) Compounds Containing Ligands with Donor Atoms, International Conference “Students for Students 2014” Cluj-Napoca, Romania. – oral presentation
- New Hypervalent Organotin Derivatives Containing 2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub> Moieties, International Conference “Students for Students 2013” Cluj-Napoca, Romania. – oral presentation

### Languages

Mother tongue: Romanian

Other languages: English (B2), German (A1).

### Awards

“Gheorghe Spacu” Award from The Romanian Academy – 2021

### Scientometric indicators

- 11 scientific papers (ISI Thomson-Reuters)
- Hirsch index: 5;
- Citations: >40;

### Publications

For a detailed list of publications see <https://publons.com/researcher/1942634/adrian-alexandru-somesan/>

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