

Curriculum Vitae

Tibor Csupász

1. Contacts:

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2. Education:

2006 – 2011 Sándor Petőfi High School - Mezőberény

Five-year Hungarian-German bilingual qualification

2011 – 2014 University of Debrecen – Faculty of Science and Technology

Chemistry BSc – Chemist specialization

2014 – 2016 University of Debrecen – Faculty of Science and Technology

Chemistry MSc – Synthetic chemist specialization

2017- University of Debrecen – Doctoral School of Chemistry

PhD student – Department of Physical Chemistry

3. Qualification:

2017 *Degree of Master in Chemistry, University of Debrecen, Debrecen*

4. Professional Experience:

2016 – 2017 *Technical assistant, University of Debrecen, Department of Inorganic and Analytical Chemistry, Debrecen, Hungary*

5. Languages:

German: advanced language exam (identification: P60G000628)

English: basic language exam (identification: P60G000628)

6. Education activity:

General Chemistry Seminar and Laboratory Practice

Physical Chemistry Laboratory Practice (BSc, MSc)

Instrumental chemistry – HPLC Practice

7. Scientific interests:

I have started to work with synthesis and analytical characterization of new type macrocyclic (oxatriaza-bicyclopentadeca-triene, approx. O-pyclene) ligands and their complexes with transition-metal ions. These new compounds can be potential contrast agents (CAs) in the future. During the synthetic work I design new ligands for Mn(II)-complexes to improve the kinetic inertness and the relaxivity of the known Mn(II)-complexes, which can substitute the toxic gadolinium(III) ion-contained commercial contrast agents (GBCAs). Moreover, I also investigate NMR technic for measurement quadrupolar nuclei (^{209}Bi , ^{115}In , ^{45}Sc) and their complexes.

8. Publications:

É. Bokor, E. Szennyes, T. Csupász, N. Tóth, T. Docsa, P. Gergely, L. Somsák:
C-(2-Deoxy-D-arabino-hex-1-enopyranosyl)-oxadiazoles: synthesis of possible isomers and their evaluation as glycogen phosphorylase inhibitors.
Carbohydrate Research, 412 **2015** 71-79 (**Q2**)

T. Ma, Peng Y. Jaclyn, M. Parris, T. Csupász, M. Li, I. Bányai, I. Tóth, Z. Lin, U. Kortz:
Indium in Polyoxopalladate(II) Chemistry: Synthesis of All-Acetate-Capped [InPd₁₂O₈(OAc)₁₆]⁵⁻ and Controlled Transformation to Phosphate-Capped Double-Cube and Monocube
Inorg. Chem., 58(23) **2019** 15864-15871 (**Q1**)

P. Manna, D. Szűcs, T. Csupász, A. Fekete, D. Szikra, Z. Lin, A. Ga' spa' r, S. Bhattacharya, A. Zulaica, I. To' th, U. Kortz:
Shape and Size Tuning of Bi^{III}-Centered Polyoxopalladates: High Resolution ²⁰⁹Bi NMR and ^{205/206}Bi Radiolabeling for Potential Pharmaceutical Applications
Inorg. Chem., 59(23) **2020** 16769–16782 (**Q1**)

Autors: Astrid Sigel, Helmut Sigel, Roland K. O. Sigel, Eva Freisinger:
MILS - Metal Ions in Life Sciences - Volume 22: Metal Ions in Bio-Imaging Techniques
Gy. Tircsó, E. Molnár, T. Csupász, Z. Garda, R. Botár, F. K. Kálmán, Z. Kovács, E. Brücher, I. Tóth - Chapter 2: Gadolinium(III)-Based Contrast Agents for Magnetic Resonance Imaging: A Re-Appraisal

9. Memberships:

2017 Hungarian Chemical Society
2021 Coordination Chemistry Workshop