

Dr. Antal Udvardy  
assistant professor  
E-mail: udvardya@unideb.hu  
Department of Physical Chemistry, University of Debrecen,  
(Chemistry building, floor 6; D604-D607 labs)  
Address: 4032 Debrecen, Egyetem tér 1, Hungary  
Central phone number: +36-52-512-900 / 22387 or 22549

#### Education

**2008–2011 Ph.D. in Chemistry, University of Debrecen, Hungary,**

Supervisor: Prof. Ágnes Kathó

Thesis: Synthesis of water-soluble Ru(II)- and Rh(I)-phosphine complexes and their application in biphasic catalysis

**2008 M.Sc. in Chemistry. University of Debrecen**

**1996–2000 Kossuth Lajos High School, Cegléd, Hungary**

#### Academic Positions:

2007- 2008 MTA-DE Homogeneous Catalytic Research Group,  
(Hungarian Academy of Sciences)  
Chemist

2011-2012 University of Debrecen, PhD Program in Chemistry,  
predoctoral fellow

2012-2013 University of Debrecen, Department of Physical Chemistry,  
assistant research fellow

2014 University of Debrecen, Department of Physical Chemistry,  
research fellow

2015-2016 MTA-DE Redox and Homogeneous Catalytic Reaction Mechanisms Research  
Group, (Hungarian Academy of Sciences)  
postdoctoral fellow

2017 University of Debrecen, Department of Physical Chemistry,  
research fellow

2017 University of Debrecen, Department of Physical Chemistry,  
assistant professor, Secretary of Institute of Chemistry

#### Work Experience Abroad

2009–201 (8 months) at University of Almería (Almería, Spain) in „CIESOL” laboratory,  
supervisor Prof. Antonio Romerosa

#### Research and supervising activities:

- chemical crystallography, coordination chemistry, small molecules, coordination polymers crystal engineering
- mechanochemistry of water-soluble P-ligands and transition metal complexes, organic and inorganic reaction in laboratories ball mills
- homogeneous catalysis, activation of small molecules (H<sub>2</sub>, water)
- supervisor of BSc, MSc and PhD students in Chemistry and in Chemical engineering

### Languages exams

- English, B2 complex exam
- English, C1 oral exam
- German, A2

### Teaching experience:

Physical chemistry calculations seminar for chemistry students

Physical Chemistry Laboratory practice for chemistry and pharmacy BSc and MSc students

### Memberships

Member of Coordination Chemistry Working Group of the Hungarian Academy of Sciences

Member of the Public Body of the HAS

Member of the Hungarian Chemical Society

Member of the Editorial Board of Debrecen Reviews

### Honors, Scholarships

- University of Debrecen, PhD Program in Chemistry, Predoctoral Fellowships  
Supervisor: Prof. Ágnes Kathó
- Pál Erdős Young Researcher Scholarship (2014) by: National Excellence Program (TÁMOP 4.2.4. A/1-11-1-2012-0001).  
Supervisors: Prof. Kathó Ágnes and prof. Ferenc Joó.
- Hungarian Academy of Sciences, Postdoctoral fellowship,  
Supervisor: Prof. Ferenc Joó

### Tenders

- OTKA- NKFI 128333: Efficient reversible chemical hydrogen storage - towards a viable practical device
- GINOP-2.3.2-15-2016-00008, Chemistry improve the quality of life: Strategic K+F workshop at the University of Debrecen
- TÁMOP-4.2.2.A-11/1/KONV-2012-0043 (ENVIKUT): Basic targeted chemical and biological research for the elimination of environmentally hazardous chemicals
- OTKA (K 101372): Aqueous organometallic catalysis - molecular mechanisms and new applications
- TÁMOP-4.2.1/B-09/1/KONV-2010-0007: Improving the quality of higher education through the development of research, development - innovation - and education in the University of Debrecen
- TÁMOP-4.2.2-08/1-2008-0012 (CHEMIKUT): Kémiai és biotechnológiai alap kutatások vízzáró rétegek és talajvizek halogénezett szénhidrogén szennyezőinek eltávolítására;
- OTKA IN 78040: Homogeneous catalysis in alternative solvents - basic research for environmental protection
- OTKA-NKTH 68482: Homogeneous catalysis in alternative solvents - basic research for environmental protection