Noémi Kovács

CURRICULUM VITAE

CONTACT

Postal address: Eötvös Loránd University, Institute of Chemistry
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PERSONAL DATA

Date&place of birth: 9th September 1992, Debrecen, Hungary
Nationality: Hungarian

EDUCATION

2016– PhD student
Doctoral School of Chemistry, Eötvös Loránd University, Budapest
Laboratory of Electrochemistry and Electroanalytical Chemistry
Topic: Investigation of electrochemical processes by using multielectrode systems
Supervisors: Dr. Soma Vesztergom and Prof. Dr. Győző Láng

2014–2016 MSc studies in chemistry, Eötvös Loránd University, Budapest
Laboratory of Electrochemistry and Electroanalytical Chemistry
Topic: Investigating the kinetics of electrode processes by the use of rotating ring–disk electrodes
Supervisors: Dr. Mária Ujvári and Dr. Soma Vesztergom

2011–2014 BSc studies in chemistry, Eötvös Loránd University, Budapest

2011 High school graduation, Fazekas Mihály Gimnázium, Debrecen

SKILLS AND COMPETENCES

Electrochemistry: Familiar with routine and advanced electrochemical experimental methods (voltammetry, hydrodynamic systems, electrochemical impedance spectroscopy, etc.).

Languages: Proficiency in English. B2 certificates in English and Spanish, moderate language skills in Italian. Mother tongue: Hungarian.

PC skills: Active user of most basic computer software (MS Office, LaTeX, CorelDRAW, Origin, Mathematica, etc.). Basic programming skills (most often used development environment: NI LabVIEW).

INTERNATIONAL EXPERIENCE

2016 8 weeks fellowship at the University of Ulm (group of Prof. Dr. Timo Jacob) studying metal deposition from deep eutectic solvents.
Scholarship granted jointly by the Deutscher Akademischer Austauschdienst and the Hungarian Fellowship Committee. Direct supervisor: Prof. Dr. Tamás Pajkossy.

AFFILIATIONS

2016– Member of the International Society of Electrochemistry (ISE).

GRANTS AND SCHOLARSHIPS OBTAINED

2017– *Investigation of the electrochemical stability of titanium alloys applied as dental implants.* 1 year grant provided by the ÚNKP-17-3 New National Excellence Program of the Ministry of Human Capacities.

2016–2017 *Investigation of the electrochemical stability of metals and alloys applied as dental implants.* Grant provided by the ÚNKP-16-3 New National Excellence Program of the Ministry of Human Capacities.

2015–2016 Scholarship granted by the Republic of Hungary.

TEACHING ACTIVITY

2014– Gives physical chemistry laboratory classes for students in chemistry from Eötvös Loránd University, and also for students in pharmacy from Semmelweis University.

VOLUNTARY ACTIVITY

2010– Organizes out-door mathematics team competitions and summer camps for elementary and high school students in the framework of the Mathematics Connects Association. (http://medvematek.hu/)

PUBLICATIONS – JOURNAL PAPERS

2017 **A.V. Rudnev, Y.-C. Fu, I. Gjuroski, F. Stricker, J. Furrer, N. Kovács, S. Vesztergom, P. Broekmann**
Transport Matters: Boosting CO_2 electroreduction in mixtures of [BMIm][BF_4]/water by enhanced diffusion
ChemPhysChem 18
DOI: 10.1002/cphc.201700737

2017 **S. Vesztergom, N. Kovács, M. Ujvári, G.G. Láng**
Apparatus and methods for using a rotating ring–disk electrode with potentiodynamic control of both working electrodes
tm - Technisches Messen 84: 683–696
DOI: 10.1515/teme-2016-0083

2017 **G.G. Láng, N. Kovács, S. Vesztergom, M. Ujvári, D. Zalka, K. Szekeres**
Experimental methods for the determination of stress changes at electrified solid-liquid interfaces
tm - Technisches Messen 84: 644–658
DOI: 10.1515/teme-2016-0082

2017 **D. Zalka, N. Kovács, K. Szekeres, M. Ujvári, S. Vesztergom, S. Eliseeva, V. Kondratiev, G.G. Láng**
Determination of the charge transfer resistance of poly(3,4-ethylenedioxythiophene)-modified electrodes immediately after overoxidation
Electrochimica Acta 247**:** 321–332
DOI: 10.1016/j.electacta.2017.06.177

2016 **S. Vesztergom, N. Barankai, N. Kovács, M. Ujvári, H. Siegenthaler, P. Broekmann, G.G. Láng**
Electrical cross-talk in four-electrode experiments: A digital simulation approach to the example of rotating ring–disk electrodes
Journal of Solid State Electrochemistry 20: 3165-3177
DOI: 10.1007/s10008-016-3294-4

2016 **S. Vesztergom, N. Barankai, N. Kovács, M. Ujvári, P. Broekmann, H. Siegenthaler, G.G. Láng**
Electrical cross-talk in rotating ring–disk experiments
Electrochemistry Communications 68: 54–58
DOI: 10.1016/j.elecom.2016.04.012

2016 **M. Ujvári, G.G. Láng, S.Vesztergom, K.J Szekeres, N. Kovács, J.Gubicza**
Structural changes during overoxidation of electrochemically deposited poly(3,4-ethylenedioxythiophene) films
Journal of Electrochemical Science and Engineering 6: 77–89
DOI: 10.5599/jese.225

2015 **N. Kovács, M. Ujvári, G.G. Láng , P. Broekmann, S. Vesztergom**
Characterization of the capacitance of a rotating ring–disk electrode
Instrumentation Science & Technology 43: 633–348
DOI: 10.1080/10739149.2015.1038561

2014 **S. Vesztergom, N. Barankai, N. Kovács, M. Ujvári, T. Wandlowski, G.G. Láng**
Rotating ring–disk electrode with dual dynamic potential control: Theory and practice
Acta Chimica Slovenica 61: 223–232

INTERNATIONAL CONFERENCES (AS PRESENTING AUTHOR)

2017 **Noémi Kovács, Laura Sziráki, Soma Vesztergom, Győző G. Láng**
Investigation of titanium dissolution in acidic media with rotating ring–disk electrodes by using dual dynamic potential control
Presented at the 6th Regional Symposium on Electrochemistry of South-East Europe, June 11–15, 2017, Balatonkenese, Hungary

A full and up-to-date list of publications can be accessed at
https://vm.mtmt.hu//search/slist.php?lang=1&AuthorID=10051203.

October 2017, Budapest