

Curriculum Vitae

Name: Wojciech Nogala
Year of birth: 1979
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Research experience:

01/2018 – now Nanoelectrochemistry group leader
01/2012 – now Research Associate, Institute of Physical Chemistry PAS
 Warsaw, Poland
12/2010 - 12/2011 PostDoc, Prof. Michael Mirkin Group, Department of Chemistry and
 Biochemistry, Queens College, The City University of New York, USA
11/2005 - 11/2010 Research Assistant, Institute of Physical Chemistry PAS
 Warsaw, Poland

Education:

- PhD in Chemistry, Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland, December 2010 (Thesis: "Dioxygen electroreduction on enzyme-modified carbon ceramic electrodes", defended with honors)
- MSc in Chemical Technology, Faculty of Fuels and Energy, AGH University of Science and Technology, Kraków, Poland July 2005 (Thesis: "Determination of kinetic parameters of processes occurring in a Solid Oxide Fuel Cell"), Rector Award for The Best Graduate in 2005
- Chemistry Technical High School, Szczawno Zdrój, Poland, June 1999

Research interest:

Nanoelectrochemistry, electrodeposition of catalytic nanomaterials, electroanalysis in confined volumes, electrochemical sensors, nanoscale electrochemical imaging and charge mapping, scanning electrochemical microscopy (SECM), scanning ion conductance microscopy (SICM).

Scientific projects:

2017 – 2022 NCN Opus 2016/23/B/ST4/02868, "Mechanisms of interaction between silver nanoparticles and biological cells."
2013 – 2016 NCN Sonata 2012/05/D/ST4/01956 "Catalytic processes in electrochemical power sources."
2013 – 2015 MNiSW Iuventus Plus IP2012 048872 "Nanoelectrodes for single biomolecules and ultrafast electrode processes studies."

Publications:

<https://scholar.google.pl/citations?user=TCJyVawAAAAJ&hl=en>

November 15, 2022

Dear ISE Division 1 Members,

In this letter, I would like to introduce myself at the occasion of the elections for Chair Elect of Analytical Electrochemistry of the International Society of Electrochemistry. I have been working in electrochemistry for over seventeen years. In my academic journey, I had an opportunity to explore several fascinating aspects of our favorite branch of science. I started with an analysis of solid oxide fuel cells, following through enzymatic cathodes for fuel cells, catalysis and ion transfer across a liquid-liquid interface, gas diffusion electrodes, nucleation and growth of metallic nanostructures for electrocatalysis and surface-enhanced Raman spectroscopy, voltammetric nanosensing of pH, electroactuation, materials for sodium ions intercalation, supercapacitors and redox charging at voltages beyond water electrolysis. Besides my intrinsic interest in energy conversion, I always tended towards understanding the processes at the nanoscopic level and being able to analyze them at the edge of their detection. Those who were and are working with me know my obsessive enthusiasm for facing challenges in the electroanalysis of hardly measurable systems, especially with nanoelectrodes and scanning electrochemical microscopy. I feel it is virtually impossible to escape from this fascinating field. I am grateful for all the fantastic electrochemists constantly keeping me infected with our passion. There are many of them. I will list only my senior teachers, professors Piotr Tomczyk, Marcin Opallo, Gunther Wittstock and Michael V. Mirkin.

In our academic work, I fully understand the importance of the efficient functioning of our division and the entire ISE and spread our enthusiasm to younger electrochemists. It is a less obvious but crucial part of our scientific duty. Organizational undertakings are my other hobbies. Among my previous engagements in this field, several were directly related to electrochemistry, i.e., serving as a member of organizing committees of a few conferences, chair of the 9th Workshop on SECM and Regional Representative of Poland in the ISE. It is my pleasure and honor to contribute to the democratic process of election for Chair Elect of the Analytical Electrochemistry Division. If elected, I will do my best to fulfill our organization's administrative duties and promote cooperation among all division members. I will also be glad to be able to congratulate other candidates for the election. Every one of us does a great job.

Best regards,
Wojciech

