



Ľubomír Švorc

FULL PROFESSOR AND DOCTOR OF SCIENCE – SLOVAK UNIVERSITY OF TECHNOLOGY · PRESIDENT – SLOVAK CHEMICAL SOCIETY

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🆔 0000-0002-9588-8609 | Scopus bibliometric data: citations **3626** · documents **145** · h-index **36**

Currently held positions

Institute of Analytical Chemistry, Faculty of Chemical and Food Technology, Slovak University of Technology Bratislava, Slovakia

FULL PROFESSOR AND DOCTOR OF SCIENCE

Slovak Chemical Society (SCS)

Slovakia

PRESIDENT

Delegate of the SCS at the Division of Analytical Chemistry of the European Chemical Society

DAC-EuChemS

MEMBERSHIP

International Advisory Board of Analytical and Bioanalytical Chemistry

MEMBERSHIP

Scientific profile and collaborations

I work as a full professor at the **Institute of Analytical Chemistry at the Faculty of Chemical and Food Technology at the Slovak University of Technology (STU) in Bratislava** focusing on the **development and application of state-of-the-art electrochemical (bio)sensors** for rapid, fast and reliable determination of a particular analytes with a great importance in health safety, environmental impact and food quality. I am an author of plenty of **scientific papers (> 160; 3200+ cit., H-index: 36**, according to Scopus and WoS) published mostly in highly impacted journals. In recent years, I obtained the prestigious awards for my research and academic activities, specifically **Laureate of the Prize for Science and Technology 2024; Finalist of the ESET Science Award 2023; Laureate of the Young Scientist Award 2014 in Slovak Republic; Laureate of the Element Europium in the Periodic Table of Younger Chemists** within the International Year of the Periodic Table and the 100th anniversary of IUPAC; **Teacher of the year 2022** at the STU and **Best Publication Award 2016** at STU and **Young Electrochemist Award for Best Publication** in 2013 of Metrohm, Czech Republic. My research stimulate scientific investigation in various interdisciplines which is reflected in active cooperation with the collaborators from a range of scientific disciplines (Analytical Chemistry, Electrochemistry and Material Chemistry) in universities abroad. A part of my competences was gained and improved within the Post-Doc positions abroad, namely the fellowships at the **Karl-Franzens University in Graz, Austria** (2013) and at the **Ruhr University in Bochum, Germany** (2014). As for the funding received so far, I have been a principal investigator and co-worker of several domestic and abroad projects. Recently, my research group very actively cooperates with the universities abroad. Until now, he has been a supervisor of **6 PhD. students, 23 master students and 16 bachelor students**.

Selected publications

- 2015 **Doping level of boron-doped diamond electrodes controls the grafting density of functional groups for DNA assays** [\[link\]](#)
- 2013 **Green electrochemical sensor for environmental monitoring of pesticides: Determination of atrazine in river waters using a boron-doped diamond electrode** [\[link\]](#)
- 2014 **Modification-free electrochemical approach for sensitive monitoring of purine DNA bases: Simultaneous determination of guanine and adenine in biological samples using boron-doped diamond electrode** [\[link\]](#)

Research grants

Principal Investigator: 8 grants: VEGA, APVV, bilateral APVV

Co-Investigator: 7 grants: VEGA, APVV, IUPAC, Europ. Regional Developm. Fund

International research stays

Serbia: University of Belgrade, Dr. Dalibor Stanković

Poland: University of Lodz, Prof. Sławomira Skrzypek and dr hab. Mariola Brycht