

Some New Trends in the Development of Electrochemical Sensors and Biosensors

Eda Mehmeti

UBT- University for Business and Technology, Faculty of Pharmacy, Lagjia Kalabria p.n., 10000, Prishtina, Kosovo
eda.mehmeti@ubt-uni.net

Abstract

Some strategies for the development and the application of electrochemical sensors and biosensors will be shown together with illustrative examples. Nanosized materials have been used as the modifiers of electrode surfaces due to the high surface area and their catalytic effects ensuing in low detection limits and excellent analytical performance. The application of sensors for the detection of inorganic and organic analytes of interest will be shown [1-4]. The development of enzyme-based biosensors using oxidoreductases will also be shown due to the high specificity of the biological entity towards the substrate [5].

References

- [1] Eda Mehmeti, Dalibor Stankovic, Ahmet Hajrizi, Kurt Kalcher, *Talanta*, 159 (2016) 34-39.
- [2] Dalibor Stankovic, Eda Mehmeti, Janez Zavasnik, Kurt Kalcher, *Sensors and Actuators B*, 236 (2016) 311-317.
- [3] Sudkate Chaiyo, Eda Mehmeti, Kristina Žagar, Weena Siangproh, Orawon Chailapakul, Kurt Kalcher, *Analytica Chimica Acta* 918 (2016) 26-34.
- [4] Sudkate Chaiyo, Eda Mehmeti, Weena Siangproh, Thai Long Hoang, Hai Phong Nguyen, Orawon Chailapakul, Kurt Kalcher, *Biosensors and Bioelectronics*, 102 (2018) 113–120.
- [5] Eda Mehmeti, Dalibor M. Stanković, Sudkate Chaiyo, Janez Zavasnik, Kristina Žagar, Kurt Kalcher, *Microchimica Acta*, 184 (2017) 1127–1134.