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# **Design and Electrochemical Synthesis of Multifunctional Surfaces**

Guest Editors:

## Prof. Dr. Constantina Kollia School of Chemical Engineering (SCE), National Technical University of Athens (NTUA), 15780 Athens, Greece

# Prof. Dr. Panayota Vassiliou

School of Chemical Engineering, National Technical University of Athens, 15780 Athens, Greece

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## **Message from the Guest Editors**

This Special Issue will provide readers with the recent progress in the electrochemical techniques for the production of different advanced materials, such as metal and alloy coatings as well as metal matrix and alloy matrix composite coatings, metal oxide thin films, semiconductive thin films, etc., and their nanocrystalline counterparts. According to the type of the electrodeposited material, the final product can exhibit high hardness, wear and corrosion resistance, electrocatalytic, photocatalytic, antimicrobial, magnetic, hydrophobic or hydrophilic, electrical, semiconductive and photoelectrochemical properties, among many others. Included (but not limited) the following topics:

- Investigation of the microstructural and morphological characteristics of electrodeposited materials as a function of the electrolytic deposition process parameters.
- Correlation of the investigated properties to the microstructural and morphological characteristics of the electrodeposited materials.
- Optimization of the electrodeposition/ electromachining process in relation to the investigated properties of the produced materials.
- Theoretical approaches of electrolytic processes.













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#### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## **Message from the Editor-in-Chief**

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