Special Issue

Electrochemical Techniques and Methods for Materials Analysis

Message from the Guest Editor

Electrochemical methods and techniques for chemical composition analysis and for measuring various parameters of materials have been known and utilized for many years. They provide essential information useful in various areas of materials applications. In the scope of chemical analysis, they require (with a few exceptions) the sample to be in the form of conducting liquid, which allows to achieve an accuracy and precision unavailable for other methods. On the other hand, processes of the solid dissolution/digestion cause averaging of chemical information and loss of essential structural information, as well as information of distribution and identity of functional groups. This Special Issue kindly invites you to submit original research papers and reviews addressing the current progress, development, and applications of electrochemical methods for the characterization and optimization of materials. **Keywords**

- electrochemical methods
- electrochemical characterization
- electrode modification
- electric double layer and colloidal properties
- electrochemical impedance spectroscopy (EIS)
- scanning electrochemical microscopy (SECM)

Guest Editor

Prof. Władysław W. Kubiak

Department of Analytical Chemistry, Faculty of Materials Science and Ceramics, AGH University of Science and Technology, Al. Mickiewicza 30, 30–059 Krakow, Poland

Deadline for manuscript submissions

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Editor-in-Chief

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

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