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Electrochemical Techniques and Methods for Materials Analysis

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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)

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Message from the Editor-in-Chief

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