Special Issue

The Application of Scanning Electrochemical Microscopy (SECM) in Electrochemical Devices

Message from the Guest Editor

Scanning electrochemical microscopy (SECM) is a powerful tool for investigating the electron transfer processes at the substrate interface and provides useful information on the local reactivity of a substrate under an ultra-microelectrode (UME). Several examples have been reported with strong applications, including the investigation of transport processes through coating and membranes, heterogeneous catalysis, electron transfer through the modified electrodes of polymer and self-assembled monolayers (SAMs), and enzyme catalysis at the sensor surface. This Special Issue will cover the applications of scanning electrochemical microscopy in electrochemical devices. For this purpose, articles and reviews reporting the SECM investigations on modified electrodes and their use as a platform for electrochemical devices are welcome.

Guest Editor

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