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Preparation of Nanomaterial Modified Electrode and Its Sensing Application

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Message from the Guest Editors

Nanomaterials have significantly promoted the development of electrochemistry-based sensing. In particular, the rapid electron transfer ability, large surface area, high electrocatalytic activity, and many other characteristics of nanomaterials are attractive for the modification of electrodes to acquire better analytical performances of sensors. Controllable assembly of nanomaterials on the electrode is essential for efficient sensing; such an issue, however, is still challenging in the preparation of modified electrodes, limiting the applicability of electrochemical sensors.

In this Special Issue, original research articles and reviews are welcome, as well as comments, reviews, and perspectives. We invite research papers related to electrochemical, photoelectrochemical and electrochemiluminescence sensing based on nanomaterial-modified electrodes.

We look forward to receiving your contributions.



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Special Issue



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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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