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Recent Advances in Nanomaterial-Based Electrochemical Sensors

Guest Editor:

Dr. Kuoyuan Hwa
Department of Molecular Science and Engineering, Institute of Polymeric Science and Engineering, National Taipei University of Technology, Taipei 10608, Taiwan

Deadline for manuscript submissions:
30 June 2026

Message from the Guest Editor

As one of the most important sensing technologies, the electrochemical sensor has the advantages of fast detection speed, high sensitivity, and low detection limit. Because of their large active surface area and good electron transfer performance, nanomaterials provide a new method for the development of high-performance electrochemical sensors. Nanomaterials, including metal nanoparticles, nanowires, graphene, nanotubes, metal–organic frames, molecularly imprinted polymers, and others, have been used to modify electrodes. The combination of nanotechnology and chemical sensors improves the sensitivity and sensing capability of existing sensors, which are widely used in medical diagnosis, food evaluation, pollutant detection, and other fields.

The purpose of this Special Issue is to introduce the research progress in the field of nanomaterials in electrochemical sensors and the application of advanced electrochemical sensors.

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Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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