Special Issue

Advances in Electrochemical Sensors

Message from the Guest Editor

Electrochemical sensors have received widespread application and attention due to their high sensitivity, accuracy, and convenient operation. Since the beginning of this century, electrochemical sensors have experienced rapid development, and various innovative studies have emerged one after another. In recent years, electrochemical sensors have gradually advanced towards miniaturization, microminiaturization, wearability, in vivo analysis, high-throughput analysis, single-cell analysis, single-molecule analysis, and other methods. In this context, we have set up this Special Issue, mainly focusing on the latest preparation methods, application progress, and analysis strategies of electrochemical sensors. Original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: new modified electrodes; microelectrodes; flexible sensors; wearable sensors; electrochemical biosensing technology; high-throughput electrochemical sensors; integrated electrochemical sensors; AI-assisted electrochemical sensors; photoelectrochemical sensing technology; and multimodal sensing technology.

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As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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