Mini review

Electrochemical Biosensors with Electrocatalysts Based on Metallic Nanomaterials as Signal Labels

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In recent years, metallic nanomaterials have been widely used in the field of electric sensing due to their superior physical and chemical properties. They can serve as the electrode modifiers to enhance electron transfer, as carriers to load signal markers such as enzyme and redox reporters, or directly as the reporters for signal readout. In particular, metallic nanomaterials as electrocatalysts have become much-favored tools in electrochemical bioassays. In this review, the progress in metallic nanoelectrocatalysts-based biosensors was addressed.

Keywords: Metallic nanomaterials; electrochemical biosensors; electrocatalysts

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