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Electrochemical Sensor Based on Graphene-Supported Tin Oxide Nanoclusters for Nonenzymatic
Detection of Hydrogen Peroxide

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Graphical abstract

Highlights

- Reduced graphene oxide-supported tin oxide nanoclusters with an average size of 3–5 nm are prepared.
- The SnO₂-rGO composite shows highly electrocatalytic activity for the reduction of H₂O₂.
- The SnO₂-rGO exhibits high sensitivity and selectivity for electrochemical detection of H₂O₂.
- The SnO₂-rGO composite can be used to detect H₂O₂ level in human blood serum

Abstract

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