



Electrocatalysts for Electrochemical Sensors and Energy-Related Devices

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Message from the Guest Editor

The design and development of advanced electrocatalytic materials is of great importance for making efficient sensors and energy devices. Because of their unique physicochemical properties, two-dimensional layer materials are likely to remain leading stars in energy and sensors for many years. Advanced nanocomposites are being developed through the combination of materials ranging from metal nanoparticles to two-dimensional layer materials. Multi-functional electrocatalysts are developed for energy reactions such as hydrogen evolution and oxidation, oxygen evolution and reduction, CO₂ reduction, etc., which have had significant impacts on fuel cells, electrolyzers, zinc–air batteries, etc. Developing low-cost, high-performance, robust, and sustainable electrocatalytic materials to replace precious metals is a major focus in the energy sector. This Special Issue entitled “Electrocatalysts for Electrochemical Sensors and Energy-Related Devices” aims to collect original articles and reviews on the latest developments in the design and synthesis of electrocatalysts for sensor and energy applications.





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Message from the Editor-in-Chief

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