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Carbon Materials for Electrocatalysis

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Electrocatalysis plays a crucial role in a wide range of technologies, from energy conversion and storage to chemical synthesis and environmental remediation. Carbon materials are widely used for electrocatalysis due to their unique properties such as high electrical conductivity, large surface area, and tuneable physical and chemical properties.

This Special Issue aims to collect the most recent scientific advancements related to carbon materials for electrocatalysis. In particular, the following aspects are considered:
(i) research and development on the formation, structure, properties, and behaviours of novel carbon materials for electrocatalysis;
(ii) functionalization of carbon surfaces for electrocatalytic applications;
(iii) technological application and the related electrocatalytic reaction process of a broad class of carbon materials in electrocatalysis including but not limited to fuel cells, hydrogen energy, environmental treatment, and transformation.

In this Special Issue, original research articles and reviews are welcome.

I look forward to receiving your contributions.

Prof. Dr. Xiaohua Zhang
Guest Editor