catalysts

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Electrocatalysis in Energy and Green Chemistry

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Message from the Guest Editors

Dear Colleagues,

Electro-catalysis lies at the core of energy storage and conversion devices and electrode design is a key-enabler of these technologies. Amongst others, support effects, promoters and more recently ligands effects in single metal atom/organic hybrid systems have been investigated for fine-tuning of the activity and selectivity. Additionally, the "electrode prehistory", in terms of the synthetic methods and the materials used for the electrode preparation, has also a significant influence on performances.

This Special Issue aims to cover recent trends and progresses in the development of electrocatalysts for **electro-catalytic applications** including, but not limited to, the carbon dioxide reduction, hydrogen evolution reaction, oxygen reduction and evolution reactions and ammonia synthesis. The goal of this issue is to provide the readership with a collection of articles in which emphasis is placed not only on the discovery of new active materials and/or electrode preparation but also on the understanding of the nanostructural and chemical characteristic of the electrodes responsible for improved performance.