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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 understanding of the nanostructural and chemical characteristic of the electrodes responsible for improved performance.



