Special Issue

Production and Properties of Functional Nanomaterials and Composites for Electrochemical and Catalytic Applications

Message from the Guest Editors

Intensive research is being conducted into highly efficient and inexpensive nanoscale materials for electrochemical applications in renewable and clean energy systems. Nanostructuring of hybrid materials with multiple functions that are not attainable with their single components is a promising way to provide efficient and cheap electrocatalysts with comparable performances to noble metal-based catalysts and rare metal oxides.
We invite researchers to contribute original research papers as well as review articles on electrochemical applications of novel CP (PCP and MOF) nanomaterials, their hybrids with carbon materials, and their thermally derived functional materials and electrodes. Topics of interest include but are not limited to performance evaluation of nanostructured functional materials for water splitting, including oxygen evolution reactions (OERs) and hydrogen evolution reactions (HERs), oxygen reduction reactions (ORRs), CO2 reduction, supercapacitors, batteries, etc. comparable to the currently used materials.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2021)

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