Special Issue

Recent Advances in Energy-Related Materials in Catalysts, 3rd Edition

Message from the Guest Editors

This Special Issue will be devoted to all aspects of recent research progress in the design and development of high-efficiency materials for applications in renewable and sustainable energy production, e.g., next-generation fuel cells, batteries, electrolyzers, and solar cells. We invite submissions in the form of original research articles, short communications, and reviews that involve the synthesis of novel materials: investigations into the mechanisms and kinetics behind the electro-oxidation of fuels, such as methanol, ethanol, formic acid, sodium borohydride. and hydrazine; and the conversion of carbon monoxide (CO), oxygen reduction (ORR), oxygen evolution (OER), hydrogen evolution (HER), and carbon dioxide (CO2), among others. This Special Issue will not be limited to the abovementioned topics; we also welcome manuscripts on the latest achievements and challenges and future opportunities in relation to the integration of novel materials into efficient energy conversion and storage systems.

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