Special Issue

Advanced Nanomaterials and Mechanistic Studies for Energy Electrocatalysis

Message from the Guest Editors

Energy electrocatalysis is an important branch of electrochemistry involving the interaction between electrical and chemical reactions in an electrochemical cell. Additionally, the activity and kinetics of an electrochemical reaction are highly influenced by the composition and structure of electrocatalysts. Advanced electrocatalysts, especially nanostructured materials, usually show different electrocatalytic reaction activities and reaction paths from bulk counterparts. Moreover, surface reconstruction, catalyst-support interactions or the interface engineering of nanostructures often remarkably affect the underlying reaction mechanisms, leading to highperformance electrocatalysts. Please check the Special Issue website for more information at: https://www.mdpi.com/journal/materials/special_issues 3GPPIN2968

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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