Special Issue

New Technology and Application of Hydrogen Production, Storage Conversion and Fuel Cell

Message from the Guest Editors

The new technology and applications of hydrogen and fuel cells are vital for achieving a sustainable world society. The production of fossil fuels is expected to peak within the next few decades. Meanwhile, they carry a steep environmental cost to releasing twice as much carbon dioxide (CO2) compared to natural gas. The transition of energy from fossil fuels to hydrogen is a daunting challenge that not only requires great scientific knowledge but also technical support covering the production, storage, conversion, and supply of hydrogen. On the other hand, fuel cells are regarded as highly effective for the conversion of hydrogen due to their environmentally clean method of energy production and higher efficiency than conventional counterparts.

The aim of this Special Issue is to present research on the state-of-the-art technology of hydrogen fuel cells and their application by collating high-quality research articles and reviews on various aspects of hydrogen. Topics include, but are not limited to, hydrogen storage, hydrogen production, hydrogen conversion and supply, all kinds of fuel cells, and novel materials/catalysts with relevant applications.

Guest Editors

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