



International Journal of Electrochemistry

Special Issue on
**Solid Oxide Fuel Cells and Hydrogen Energy Storage
and Conversion**

CALL FOR PAPERS

The Horizon 2020 program highlights the transition to a reliable, sustainable, and competitive energy system, in the face of increasing resource scarcity, increasing energy needs, and climate change as one of its primary goals.

A key area that remains to be resolved is that of energy storage and conversion. Hydrogen generation and utilization as well as solid oxide fuel cell commercialization have been suggested as possible solutions for use as energy carrier and converter. Nonetheless, hydrogen must be processed like any other fuel; it must be stored, transported, and distributed to the end user before it can be reconverted into electricity. In this respect, the physical nature of hydrogen leads to serious energy losses during these processes due to its poor volumetric energy density.

The purpose of this special issue is to publish high-quality research papers as well as review articles addressing recent advances on functional materials for solid oxide fuel cells, hydrogen storage, electrochemical energy storage and conversion, and electrocatalysis. Original, high-quality contributions that are not yet published or that are not currently under review by other journals or peer-reviewed conferences are sought.

Potential topics include, but are not limited to:

- ▶ Nanoscale electrochemistry
- ▶ Electrochemistry of functional materials for solid oxide fuel cells
- ▶ Electrochemical energy storage and conversion
- ▶ Interfacial electrochemistry and spectroelectrochemistry
- ▶ Electrocatalysis
- ▶ Molecular electrochemistry
- ▶ Electrochemical instrumentation
- ▶ Hydrogen storage

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