Special Issue

Advanced Materials, Processes and Systems for Electrochemical/Thermochemical Devices

Message from the Guest Editor

Most research today has the overall objective of contributing to the development of energy vectors as electricity and hydrogen. In this regard, the study and the development of systems, processes and materials for electrochemical production, conversion and storage of energy is crucial to decrease fuel consumption and emissions and support concomitantly, the use of renewable sources for distributed generation and transport. Many research activities have been performed in field of energy to develop innovative devices to satisfy the increasing market demands. High- and low-temperature fuel cells and electrolyzers for the production and re-use of hydrogen can be the focus of this Special Issue. Also, with regard to hydrogen, much is being done for the development of materials and processes for its storage and reuse. The purpose of this Special Issue is to publish high-quality research papers as well as review articles addressing recent advances on systems, processes, and advanced materials for electrochemical production, conversion and the storage of energy by mean hydrogen.

Guest Editor

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Message from the Editor-in-Chief

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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