Special Issue

Modern Material Solutions in Hydrogen Technologies

Message from the Guest Editor

Currently, hydrogen is considered the fuel of the future, and for hydrogen to be widely used, infrastructure and gas distribution must be built. One of the tasks in this area is the production of green hydrogen from renewable energy sources (i.e., biomass or waste). Regardless of which direction the energy policy of Europe takes, the acquisition, transport and storage of hydrogen constitute an important aspect of building the hydrogen infrastructure of European countries. In this regard, the material aspects, e.g., durability, service life, availability and safety, rest on solving the problems of materials engineering and corrosion of materials. I invite colleagues with research interests related to interdisciplinary issues in the field of hydrogen and materials dedicated to it to present their research, share their knowledge and expand the group of scientists supporting each other. Let us start an adventure together that will end with the realization of the vision of using hydrogen as a conventional and environmentally friendly fuel.

Guest Editor

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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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