Special Issue

Performance and Degradation Mechanisms of Electrode Materials for Solid Oxide Cells Devices

Message from the Guest Editors

The study of electrode materials for Solid Oxide Cell (SOC) devices is constantly bringing new progress to the field. Detailed studies of the mechanisms of the historical state-of-the-art materials have brought new architectures, morphologies, and advanced nanocomposites, while new materials compositions have also been tested. The aim of the Special Issue "Performance and Degradation Mechanisms of Electrode Materials for Solid Oxide Cell Devices" is to compile new results in the knowledge of the catalytic and degradation mechanisms of a wide range of electrode materials. Oxygen electrodes, fuel electrodes or symmetric electrodes produced by technologies from thin films to nanocasting new procedures through electrodes produced by additive manufacturing will be studied operating under fuel cell or electrolysis mode. In this way, the Special Issue will bring a broad overview on the main advantages for the electrodes generated by different innovative technologies.

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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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