Special Issue

Advanced Functional Materials for Solid Oxide Electrochemical Cells

Message from the Guest Editor

Continuous energy demand causes many worldwide problems, including greenhouse gas emission, global pollution and temperature change and consumption of limited fossil fuels sources. As a result, renewable and electrical storage technologies are attracting increasing attention. In this regard, solid oxide cells (SOCs) are at the forefront of current trends in the design and development of environmentally friendly devices which enable various electrochemical conversion processes with high efficiency and performance to be carried out. Although many promising results have been recently reached, investigations relating to material issues and different applied aspects of SOCs are still of great importance to overcoming existing fundamental and technological issues. Following this key direction, I am pleased to announce the Special Issue "Advanced functional materials for solid oxide electrochemical cells" in the journal *Materials*. The aim of this SI is to collect high quality **review articles**, forming a platform for the discussion of advances, current trends and challenges of solid oxide materials.

Guest Editor

Dr. Dmitry Medvedev

Institute of High-Temperature Electrochemistry, Ural Branch, Russian Academy of Sciences, 620066 Ekaterinburg, Russia

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/materials

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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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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