

Special Issue

Solid Oxide Cells in the Future of Clean Energy Systems

Message from the Guest Editor

This Special Issue of *Energies* will focus on studies related to cell and SOCs stack designs, including both oxygen and high-temperature protonic conducting, including, but not limited to, the following:

- Novel materials for SOCs, enhanced technologies for the fabrication of the electrodes, electrolyte membranes, and functional layers;
- Design of the cells, single repeating units, and stacks;
- Characterization of the electrochemical performance of the cells;
- Electrochemical degradation of the cells in solid oxide fuel cell (SOFC), protonic ceramic fuel cell (PCFC), solid oxide electrolysis cell (SOEC), protonic ceramic electrolysis cell (PCEC), and solid oxide fuel and electrolysis cell (SOFE) modes;
- Characterization and degradation of the interfaces in single repeating units, including anode and cathode electric contacts as well as the possible impact of the sealing;
- Novel and unusual application of solid oxide cells like electrocatalytic reactors, etc.

Guest Editor

Dr. Yevgeniy Naumovich

CTH2—Center for Hydrogen Technologies, Institute of Power Engineering—National Research Institute, Augustówka 36, 02-981 Warsaw, Poland

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

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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