Special Issue

High-Temperature Electrochemistry of Solid Oxide Materials and Systems

Message from the Guest Editors

This Issue is related to the recent achievements in materials science and to the development of solid oxide electrochemical devices. The Issues include the crystal structure, electronic structure, microstructure and related transport properties of oxygen ionic and protonic electrolytes, mixed electronic and ionic conductors, and triple conducting materials. The design, fabrication techniques, scale-up production, and long-term tests of the solid oxide electrochemical devices are of great interest for researchers working in this field. Special attention is paid to the different scale modeling of solid oxide fuel cells, including protonic ceramic fuel cells. On behalf of the editorial team, we have pleasure to invite all of you to contribute to the Special Issue, High-Temperature Electrochemistry of Solid Oxide Materials and Systems, with your state-of-the-art findings.

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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.

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