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Advances of Solid Oxide Fuel Cells

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Deadline for manuscript submissions:

closed (30 September 2023)

Message from the Guest Editors

Solid oxide fuel cells (SOFCs) use solid, ceramic materials to effectively achieve high efficiency without the requirement of costly metals. A single unit consists of cathode, electrolyte, anode, and their interconnections, whereby the electrolyte can be oxygen ion-conducting or proton-conducting. SOFCs are more fuel-flexible compared to other types of fuel cells and tolerate some impurities from fossil fuels, such as natural gas. They are promising for use in a variety of stationary power applications and auxiliary power units for heavy-duty trucks.

For this Special Issue, we are seeking submissions of research on the topics of new synthesis, structures, and characterization of electrolytes, electrodes, and catalysts. Submissions focused on new concepts regarding cell/stack design and theoretical calculations are also of interest, as are those dealing with any other topic that falls within the theme of the Special Issue.



mdpi.com/si/99912

Special Issue



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Message from the Editor-in-Chief

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