



Advances in Solid Oxide Cells (SOCs): Performance and Reliability

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to capture the recent advancements in Solid Oxide Cells (SOCs) with a specific focus on their performance and reliability. Authors are encouraged to contribute their findings on various aspects, including innovative materials, fabrication techniques, performance optimization strategies, durability enhancements, and long-term reliability assessments.

Relevant topics for manuscript submission include, but are not limited to:

1. Electrochemical processes and mechanisms within SOC;
2. Modeling and simulation of SOC performance and behavior;
3. Experimental investigations on SOC under different operating conditions;
4. Advances in materials science for SOC, including novel electrode, electrolyte, and interconnect materials;
5. Manufacturing techniques and process optimization for SOC;
6. Characterization and testing methods for evaluating SOC performance and durability;
7. Novel approaches for improving the reliability and lifetime of SOC;
8. Techno-economic analyses and market perspectives for SOC applications.

Deadline for manuscript
submissions:

15 July 2024





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Message from the Editor-in-Chief

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