

Special Issue

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

Message from the Guest Editors

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:

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

Guest Editors

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