



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

Guest Editors:

Dr. Ali Akbari-Fakhrabadi

Department of Mechanical Engineering, University of Chile, Santiago 8370456, Chile

Dr. Felipe Sanhueza-Gómez

Department of Materials Engineering, University of Concepción, Concepción 4070415, Chile

Deadline for manuscript submissions:

15 July 2024

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.





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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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Processes Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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