

## Special Issue

# Preparation and Optimization of Solid Oxide Fuel Cell Electrode and Electrolyte Materials

### Message from the Guest Editor

Solid Oxide Fuel Cells (SOFCs) represent one of the most efficient technologies for directly converting chemical energy into electrical energy. The performance, durability, and operational flexibility of SOFCs are critically dependent on the materials used, the macro and microstructure of SOFCs, and the methods employed in preparations. Therefore, advances in material and structure optimization and innovations in the preparation and manufacturing processes are vital to overcoming existing challenges in SOFC and enhancing overall efficiency. This Special Issue, titled "Preparation and Optimization of Solid Oxide Fuel Cells", highlights the latest research in optimizing SOFC materials, structure, and the innovative preparation techniques driving the field forward. We invite original research papers, reviews, and commentaries that explore advancements in the preparation and optimization of SOFCs, as well as the impact of these methods on the performance, lifetime, and cost of SOFCs.

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### Guest Editor

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### Deadline for manuscript submissions

closed (20 September 2025)



## Materials

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### Message from the Editor-in-Chief

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### Editor-in-Chief

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