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Advanced Methodology and Technique for Solid Oxide Fuel Cell (SOFC): Control, Diagnosis, and Evaluation

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Message from the Guest Editor

Based on the core component stack, SOFC (solid oxide fuel cell) power generation systems are equipped with BOP (balance of plant) subsystems, which have the characteristics of electrical–thermal strong coupling, large time delay in thermal characteristics, and difficult control. As medium–high-temperature, high-efficiency power systems, the most important thing for SOFC systems is to meet the load requirement while maintaining thermal safety, a long life, and high efficiency.

The purpose of this Special Issue is to collect research papers and reviews on “Control, Diagnosis, and Evaluation of Solid Oxide Fuel Cells” in order to reflect the latest trends and challenges in this topic. The scope of this Special Issue includes the integration of real SOFC systems, the construction of SOFC thermoelectric coupling models, the study of algorithms for SOFC performance evaluation and fault diagnosis, and the design of controllers for SOFC health management.



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Special Issue



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Message from the Editor-in-Chief

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