

Special Issue

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

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.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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