Special Issue

Trends and Prospects in Fuel Cell Towards Industrialization

Message from the Guest Editors

Fuel cells, especially proton exchange membrane fuel cells, are moving towards industrialization. After several decades of development, the durability, reliability, and low-cost material design still represent challenges. The main limitation is our unclear knowledge of reactant behaviours at three-phase boundaries, the macroscopic preparation of low-cost materials coupled with poor performance, and high-efficiency optimization and control of systems. This Special Issue focuses on new technologies of fuel cells and we encourage researchers to submit papers on the following topics: electrochemical reaction investigation and characterization, precious-group-metal-free catalysts and low loading PGM catalyst design, high-efficiency mass and electron transfer, system design, optimization, and optimal control. We welcome submissions that display originality in the form of research papers, reviews, and other corresponding forms.

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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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