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Advances in Hydrogen and Fuel Cell Systems II

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Message from the Guest Editor

Dear Colleagues,

Fuel cells convert chemical energy in the form of fuel, such as hydrogen, directly into electrical energy. However, unlike batteries, which store their reactants within a cell, the reactants are fed continuously to it from external stores. Moreover, the electrodes in a fuel cell are not consumed as in a battery—irreversibly in a primary cell and reversibly in a secondary cell—and do not take part in the reaction.

Fuel cells have a clear potential to eliminate pollution, as they do not require fossil fuels. Alternatively, hydrogen can be produced anywhere and on different scalable volumes, which leads to more stabilized and decentralized power grids in the long term. However, fuel cell cost is one barrier that is facing further commercialization of fuel cell technology in different applications. Fuelling fuel cells is another fundamental problem because the production, transportation, distribution, and storage of reactants is still technically challenging.

This Special Issue, therefore, seeks to contribute to hydrogen and fuel cell systems by enhancing scientific and multi-disciplinary knowledge in the sector.



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Special Issue



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Message from the Editor-in-Chief

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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