Special Issue

Advances in Fuel Cell Renewable Hybrid Power Systems

Message from the Guest Editors

Global concern over climate change has led governments to set ambitious goals to reduce greenhouse gas emissions. This focus has driven the development of innovative technologies to reduce reliance on fossil fuels. Here, green hydrogen, generated from renewable sources, emerges as a viable solution, serving as a high-density energy carrier for storing and transporting energy. In this context, fuel cells are gaining relevance as a clean and efficient alternative to internal combustion engines. This Special Issue encourages works from both industry and academia focused on the analysis of efficiency improvements and pollutant emission formation and control in decarbonized powertrain platforms. These include (but are not limited to):

- Research on the production and storage of green hydrogen;
- Studies on the integration of renewable energy sources;
- Development and optimization of fuel cells;
- Fuel cell modeling and simulation;
- Development of innovative materials for fuel cells;
- Applications of fuel cells in transportation;
- Advances in hydrogen refueling infrastructure;
- Safety and risk aspects of hydrogen use;
- Innovations in hybrid propulsion systems.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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