



## Energy Management and Diagnostics of Grid-Connected Electric and Hybrid Vehicles

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submissions:

**closed (1 March 2022)**

### Message from the Guest Editor

With continued research on batteries, polymer electrolyte membrane (PEM) fuel cells (PEMFC), and charging stations, technologies will be refined and standards will be developed, which will encourage the increased adoption of EVs, leading to a more sustainable energy future. This Special Issue will be coordinated by *Applied Sciences* MDPI. The main objective of this Special Issue is to provide timely solutions for emerging scientific/technical challenges in electromobility, battery electrochemistry, PEMFC, material, algorithmic, hardware aspects of battery management systems, and charging technologies. Topics of interest of this Special Issue include but are not limited to:

- Battery diagnosis, prognosis, and health management;
- Battery electrochemical/material characteristics;
- Battery temperature control technologies;
- Battery charging technologies, and alternative energy-based electric vehicle charging stations;
- Battery management system hardware design and verification;
- Battery modeling and state estimation;
- PEMFC mathematical modeling;
- PEMFC real time simulation;
- PEMFC diagnosis, control, and monitoring.





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## Editor-in-Chief

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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.

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