Special Issue

Lithium-Ion Batteries for Electric Vehicle

Message from the Guest Editors

Featuring high energy and power density, a long lifespan, and a continuously decreasing cost, Li-ion batteries are regarded as the key energy storage components for electric vehicles. As is the case with most electrochemical systems, Li-ion batteries are highly nonlinear systems with complicated physical and chemical reactions. They are fragile to external factors, such as voltage, current, temperature, vibration, and humidity. The internal states of the batteries are mostly unmeasurable with the existing commercial sensors. Issues such as ultrafast charging, lifespan, second-life utilization, and reliability under extreme temperatures remain unsolved. Therefore, the intelligent control and management of these batteries are critical to the safe, fluent, and efficient use of these batteries.

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Message from the Editor-in-Chief

The *World Electric Vehicle Journal* is the official journal of the World Electric Vehicle Association (WEVA) and its members the European Association for Electromobility (AVERE), the Electric Drive Transportation Association (EDTA), and the Electric Vehicle Association of Asia Pacific (EVAAP). Since its foundation in 2007, the journal has aimed to provide a publishing platform for the academic and industrial world to share the latest developments and knowledge about electric vehicles. If you are developing Electric, Plug-in Hybrid, Hybrid Electric, or Fuel Cell Vehicles, we cordially invite you to consider us as the place for you to publish your latest results and innovations.

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