

## Special Issue

# Monitoring and Simulation for Battery System

### Message from the Guest Editors

With the drive towards a low carbon future, improved energy storage, in particular batteries, is one of the major global challenges facing society today. Lithium-ion batteries (LiBs) are the preferred choice for home and portable electronics, battery electric vehicles and aerospace applications due to their high energy density and low self-discharge. However, there are also associated risks to them. Lithium-ion battery packs are the predominant energy storage systems in aircraft, electric vehicles, portable devices and other equipment requiring a reliable, high-energy-density, low-weight power source. The battery management system (BMS) is an electronic system responsible for safe operation, performance and battery life under charge-discharge cycles. Devices to monitor and simulate battery systems have attracted a lot of interest over the last two decades. In this Special Issue, we will be looking at new models for simulation to develop safer and stronger batteries.

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### Guest Editors

Dr. Carlos Fernandez

School of Pharmacy and Life Sciences, Robert Gordon University,  
Aberdeen AB107GJ, UK

Prof. Dr. Shunli Wang

School of Information Engineering, Southwest University of Science and  
Technology, Mianyang 621000, China

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### Deadline for manuscript submissions

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[processes@mdpi.com](mailto:processes@mdpi.com)

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### Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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