



Lithium-Ion Batteries for Electric Vehicle

Guest Editors:

Dr. Yujie Wang

Department of Automation,
University of Science and
Technology of China, Hefei,
China

Dr. Xiaopeng Tang

Department of Chemical and
Biological Engineering, The Hong
Kong University of Science and
Technology, Kowloon, Hong
Kong

Deadline for manuscript
submissions:

closed (15 November 2024)

Message from the Guest Editors

Dear Colleagues,

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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Editor-in-Chief

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MOBI—Electromobility Research
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Technology, Faculty of
Engineering Sciences, Vrije
Universiteit Brussel, 1050 Brussel,
Belgium

Message from the Editor-in-Chief

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Journal Rank: JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q2 (Automotive Engineering)

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World Electric Vehicle Journal
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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