

## Special Issue

# Hybrid Energy System in Electric Vehicles

### Message from the Guest Editors

This SI is a platform on the latest developments on HESS for electric vehicles can be shared. Researchers in this field are encouraged to contribute. The following topics are welcomed, but submissions are not limited to the list of topics below:

- Design, system engineering, and field applications of HESS for EV;
- Modeling, simulation, testing, and verification for renewable energy sources in HESS;
- Coordination sizing and energy management of HESS; Power conversion electronics for renewable energy sources;
- Power electronic architectures for HESS;
- Aging mechanisms of power converters and energy storage devices;
- Online estimation of state-of-charge, state-of-health, and state-of-power;
- Aging modeling and lifetime prediction; Power electronic architectures for HESS;
- Solid-state battery technology, hydrogen fuel cell technology, and supercapacitor technology;
- Machine learning, big data, and cloud computing in HESS applications;
- Real-time energy management and predictive optimization methodologies;
- Monitoring and predictive maintenance of HESS;
- Life cycle analysis, including re-use of HESS in second-life applications.

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### Guest Editors

Prof. Dr. Jiageng Ruan

Prof. Dr. Lei Zhang

Dr. Weihan Li

Dr. Zhongwei Deng

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### Deadline for manuscript submissions

closed (31 March 2024)



## Sustainability

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## Editor-in-Chief

Prof. Dr. Steve W. Lyon

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