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Advances in Secondary Battery

Guest Editor:

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Message from the Guest Editor

Secondary batteries are rechargeable batteries that transform electrical energy into chemical energy and vice versa. These batteries are widely deployed in a wide range of applications, from miniaturized devices to high-power-driven electric vehicles. Since the inception of Li-ion batteries, remarkable progress has been made to meet the needs of the energy-starving world. However, the popular Li-ion batteries have reached a limit in their energy density and power density. Therefore, the latest developments in the other secondary-type batteries have drawn the scientific community's attention. These advancements allow inexpensive and efficient energy storage solutions. The current Special Issue aims to present and disseminate the most recent advances in battery science and engineering, the chemistry of the secondary batteries, and novel electrode and electrolyte configurations.

The scope of publication includes, but is not limited to, the following: the latest advancements in Li-ion battery, Li–S battery, Li–air battery, all-solid-state battery, redox flow battery, Na-ion battery, Li–CO2 battery, and battery waste and recycling.

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Message from the Editor-in-Chief

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