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Polymer Applications in Batteries

Guest Editor:

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Message from the Guest Editor

As the current flagship technology containing a high energy density, Li-ion batteries (LIBs), as well as Na-, K-, Mg-, Zn-, and Al-ion batteries, among others, have become essential in consumer electronics, robots, electrical vehicles, drones, and some stationary applications. However, the substantial improvements and, notably, discovery of new electrode and electrolyte materials, which address redox-active inorganic systems, pose great pressure in terms of metal resource constraints, production costs, and environmental footprint in view of their ever-growing demand. Lightweight, abundant, inexpensive, and recyclable metal-free polymer materials are becoming promising electrode and electrolyte candidates for batteries and could bring new chemical opportunities to further improve existing electrochemical energy storage technologies, while opening new playgrounds to create innovative cell configurations.

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Message from the Editor-in-Chief

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